

**Four Rivers Sanitation Authority
Rockford, Illinois**

Bidding Requirements and Contract Forms

for

Creek Crossing Protection – Alpine Park

Capital Project No. 2687

Four Rivers Sanitation Authority Rockford, Illinois

**Bidding Requirements and Contract Forms
and
General Provisions and Technical Specifications
for
Sanitary Sewer Construction**

for

Creek Crossing Protection – Alpine Park

Capital Project No. 2687

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Table of Contents

I. Bidding Requirements

Article 1 Notice to Bidders

Article 2 Instructions to Bidders

- 1 General
- 2 Legal Requirements
- 3 General Instructions

Article 3 Detailed Specifications

- 1 General
- 2 Notification, Access, and Special Considerations
- 3 Permit Requirements
- 4 Abandon and Fill Existing Sanitary Sewers
- 5 Aggregate Ditch Checks
- 6 Bypass Pumping
- 7 Concrete Encasement for Sanitary Sewers
- 8 Construction Layout
- 9 Dewatering
- 10 Erosion Control Blanket
- 11 Filter Fabric
- 12 Manholes, Type A
- 13 Perimeter Erosion Barrier
- 14 Precast Reinforced Concrete Flared End Section
- 15 Remove Existing Flared End Section
- 16 Remove Existing Storm Manhole
- 17 Riprap Slurry
- 18 Rock Excavation For Sanitary Sewer
- 19 Sanitary Manholes
- 20 Sanitary Manholes to Be Removed and Replaced
- 21 Sanitary Sewer Main Line Repair
- 22 Sanitary Sewer
- 23 Seeding and Fertilizing
- 24 Stabilized Construction Entrance
- 25 Stone Riprap for Sanitary Sewer Stream Crossing
- 26 Storm Sewer Removal
- 27 Storm Sewers
- 28 Tree Planting
- 29 Tree Removal

II. Contract Forms

Proposal
Fair Employment Practices Affidavit of Compliance
Affidavit of Compliance: Responsible Bidder Ordinance
Bid Bond
Agreement
Labor & Material Payment Bond
Performance Bond

III. General Provisions and Technical Specifications for Sanitary Sewer Construction (separate document incorporated by reference)

Not to be used for bidding purposes

Section I

Bidding Requirements

Not to be used for bidding purposes

Article 1 — Notice to Bidders

The Four Rivers Sanitation Authority (FRSA) will receive signed and sealed bids for Creek Crossing Protection – Alpine Park, Capital Project No. 2687, at the Steve Graceffa Administration Building (Administration Building) at 3501 Kishwaukee Street, Rockford, Illinois until 2:00 p.m. on Monday, April 20, 2026, at which time and place responsive / responsible bids will be publicly opened and read aloud.

The Creek Crossing Protection – Alpine Park, Capital Project No. 2687 project consists of the repair and reroute of encased, undermined sanitary sewer crossing Keith Creek in Alpine Park. Work includes removal and replacement of encased sanitary sewer, installation of new sanitary sewer, armoring of encased sanitary sewer with grouted riprap, removal and replacement of storm sewer and all other appurtenances indicated on the plans and in the specifications.

Bidder's attention is called to Article 2 – Instructions to Bidders, Section 3.7 and 3.8. Pursuant to Section 3.7, each proposal must be accompanied by fully executed copies of the Fair Employment Practices Affidavit and the Affidavit of Compliance: Responsible Bidder Ordinance. Pursuant to Section 3.8 requirements for Statement of Qualifications, Bidder must have a permanent business office within forty (40) miles of FRSA's office at 3501 Kishwaukee Street in Rockford, Illinois.

All demolition, construction, installation and associated Project work shall be completed by September 30, 2026. Liquidated damages shall be \$300.00 per calendar day.

Bid documents may be obtained at a cost of \$50.00 per set (non-refundable) by contacting the FRSA Engineering Department at 815-387-7660.

Plans and specifications may also be viewed at the offices of the Northern Illinois Building Contractors Association at 1111 S. Alpine Rd, Rockford, Illinois. For more information, visit the FRSA website at fourrivers.illinois.gov.

An optional Pre-Bid Meeting for this project will be held on Thursday, April 9, 2026, at 10:00 a.m. in the FRSA Board Room in the Steve Graceffa Administration Building, 3501 Kishwaukee Street, Rockford, Illinois. All contractors that intend to bid on this project are encouraged to attend this pre-bid meeting.

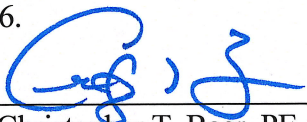
All construction shall be done in accordance with specifications on file with FRSA, including the *General Provisions and Technical Specifications for Sanitary Sewer Construction, Four Rivers Sanitation Authority* (Current Edition).

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount of five percent (5%) of the total bid price. This amount is a guarantee that, if the Proposal is accepted, a Contract will be entered into and its performance properly secured.

The successful bidder will be required to furnish a satisfactory Performance Bond in the full amount of the Bid or Proposal. No Bid shall be withdrawn without FRSA's consent for a period of sixty (60) days after the scheduled closing time for receipt of bids.

FRSA reserves the right to reject any or all bids, or any part thereof, or to accept any bid or any part thereof, or to waive any formalities in any bids, deemed to be in the best interest of FRSA.

Dated this 26th day of March, 2026.


BY: Christopher T. Baer, PE, Executive Director

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

This section of the Contract Documents provides detailed information and requirements for preparing bids to prospective bidders, bidders' responsibility, the preparation and the submission of bids, basis for awarding the Contract and other general information concerned with bidding and executing the Contract.

1.2 Contradictions

If in the case of apparent contradictions between or among the Contract Documents, the Contract Documents shall be consulted in the following order: Addenda, Agreement, Supplementary Drawings, Instructions to Bidders, Detailed Specifications, Plans, Four Rivers Sanitation Authority (FRSA) General Provisions and Technical Specifications for Sanitary Sewer Construction. The language in the first such document in which language regarding the conflict, error or discrepancy occurs shall control.

1.3 Optional Pre-Bid Meeting

An optional Pre-Bid Meeting for this project will be held on Thursday, April 9, 2026, at 10:00 a.m. in the FRSA Board Room at 3501 Kishwaukee Street, Rockford, Illinois. All Contractors intending to bid on this project are encouraged to attend the pre-bid meeting.

2 Legal Requirements

2.1 Illinois Regulations

- A. Public Act 100-1177 (820 ILCS 130/) entitled the "Prevailing Wage Act" requires the Bidder to comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on FRSA projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>. The Bidder is responsible for verifying current information at the State's website.
- B. Public Act 83-1030 (30 ILCS 565/) entitled the "Steel Products Procurement Act" requires that steel products used or supplied in performance of this Contract or subcontract must be manufactured or produced in the United States with three exceptions.

The provisions of this Section shall not apply:

1. Where the Contract involves an expenditure of less than \$500.
2. Where the executive head of the public agency certifies in writing that
 - a) the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
 - b) obtaining the specified products, manufactured or produced in the United States would increase the cost of the Contract by more than 10%.
3. When its application is not in the public interest.

- C. Public Act 96-929 (30 ILCS 570/) entitled the “Employment of Illinois Workers on Public Works Act” provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and, further, that Illinois workers are available and capable of performing the particular type work involved.
- D. Public Act 101-221 (820 ILCS 96/) entitled the “Workplace Transparency Act” requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:
1. the illegality of sexual harassment
 2. the definition of sexual harassment under Illinois State law
 3. a description of sexual harassment, utilizing examples
 4. my (our) organization's internal complaint process including penalties
 5. the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission
 6. directions on how to contact the Department and the Commission
 7. protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act
- Upon request, this information must be provided to the Illinois Department of Human Rights and the FRSA.
- E. With regard to nondiscrimination in employment, the Contractor for this project will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations.
- F. The Contractor for this project must comply with the Occupational Safety and Health Act.
- G. The Contractor for this project must comply with the Federal Drug-Free Workplace Act.
- H. Public Act 96-1416 requires the Certification of Clean Construction and Demolition Debris (CCDD) and uncontaminated soil prior to disposal at a CCDD fill site. The Contractor for this project must comply with Public Act 96-1416 and be responsible for the certifications and any fees associated with the disposal at a CCDD fill site.

1. In the event that contaminated soil is uncovered on the project, the Contractor must notify FRSA immediately. Any extra costs resulting from the presence of contaminated soil must be evaluated in accordance with FRSA General Provisions & Technical Specs for Sanitary Sewer Construction; General Conditions: Article 5 – Time Provisions and Article 8 – Changes.

2.2 Americans with Disabilities Act

The Contractor for this project will comply with all applicable requirements of the Americans with Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify Four Rivers Sanitation Authority (FRSA) and their representatives from all:

- A. suits, claims, or actions
- B. costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement

- C. damages of any kind (including but not limited to actual, punitive, and compensatory damages) relating in any way to or arising out of the ADA, to which said firm is exposed or which it incurs in the execution of the Contract.

3 General Instructions

3.1 Bidder's Responsibility

Bidders are cautioned not to submit proposals until having carefully examined the entire site of the proposed work and adjacent premises and the various means of approach and access to the site, and having made all necessary investigations to inform themselves thoroughly as to the facilities for delivering, placing and handling the materials at the site, and having informed themselves thoroughly as to all difficulties involved in the completion of all the work under this Contract in accordance with its requirements.

Bidders must examine the Plans, Specifications and other Contract Documents and shall exercise their own judgment as to the nature and amount of the whole of the work to be done and for the bid prices must assume all risk of variance, by whomsoever made, in any computation or statement of amount or quantities necessary to complete fully the work in strict compliance with the Contract Documents. The Bidder must satisfy himself by making borings or test pits, or by such methods as he may prefer, as to the character and location of the materials to be encountered or work to be performed. No pleas of ignorance of conditions that exist or that may hereafter exist, or of conditions or difficulties that may be encountered in the execution of the work under this Contract, as a result of failure to make the necessary examinations and investigations, will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill, in every detail, all of the requirements of the Contract Documents, or will be accepted as a basis for any claims whatsoever for extra compensation or for an extension of time.

The Contractor is responsible for verifying the location of all existing utilities in the project areas.

The Bidder, therefore, shall satisfy himself by such means as he may deem proper as to the location of all structures that may be encountered in construction of the work.

3.2 Addenda and Interpretations

No interpretation of the meaning of the Plans, Specifications, or other Contract Documents will be made to any bidder orally. Every request for such interpretation must be in writing addressed to Four Rivers Sanitation Authority, 3501 Kishwaukee Street, Rockford, Illinois. To be given consideration, such request must be received at least five (5) days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda which, if issued, will be sent by email, fax, or certified mail with acknowledgement of receipt requested, to all prospective bidders, at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addenda or interpretation shall not relieve said bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

3.3 Laws and Regulations

The prospective bidder is warned that he must comply with all laws of the United States Government, State of Illinois, all ordinances and regulations of FRSA in the performance of the work under this

Contract. The Bidder's attention is specifically called to that provision of the General Conditions regarding the rate of wage to be paid on the work.

3.4 Quantities Estimated Only

Bidders are warned that the estimate of quantities of the various items of work and materials, as set forth in the Proposal form, is approximate only and is given solely to be used as a uniform basis for the comparison of bids. The quantities actually required to complete the Contract work may be less or more than so estimated, and if awarded a contract for the work specified, the Contractor further agrees that he will not make any claim for damages or for loss of profits or for an extension of time because of a difference between the quantities of the various classes of work assumed for comparison of bids and quantities of work actually performed.

3.5 Form, Preparation, and Presentation of Proposals

For particulars as to the quantity and quality of the supplies, materials and equipment to be furnished, and the nature and extent of the work or labor to be done, prospective bidders are referred to the Contract Documents, which may be examined or obtained at the office of FRSA.

Each bid will be submitted upon the prescribed Proposal form. All blank spaces for bid prices must be filled in, in ink, with the unit or total sum or both for which the Proposal is made. If the Proposal contains any omissions, erasures, alterations, additions or items not called for in the itemized Proposal, or contains irregularities of any kind, such may constitute sufficient cause for rejection of bid. In case of any discrepancy in the unit price or amount bid for any item in the Proposal, the unit price as expressed in figures will govern. In no case is the agreement form to be filled out or signed by the bidder.

Bidders may opt to contact FRSA's Engineering Department at 815.387.7660 to obtain an electronic Proposal form. If used, this form must be attached to the hard copy Proposal form and appropriately signed and executed with the bid.

The bid must be verified and be presented on the prescribed form in a sealed envelope on or before the time and at the place stated in the Advertisement for Bids, endorsed with the name of the person, firm or corporation presenting it, the date of presentation, and the title of the work for which the bid is made. If forwarded by mail, the sealed envelope containing the Proposal and marked as directed above, must be enclosed in another envelope addressed to Clerk of the Four Rivers Sanitation Authority, 3501 Kishwaukee Street, Rockford, Illinois, 61109 and be sent preferably by certified mail. FRSA will not accept facsimile generated bids.

3.6 Bid Security

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount specified in Article One, Notice to Bidders. This sum is a guarantee that, if the Proposal is accepted, a contract will be entered into and its performance properly secured. The FRSA's Bid Bond Form included in the bid packet must be used. No other Bid Bond form may be substituted.

Within ten (10) days after the award of the bid, the deposits of all but the three lowest bidders will be returned. The deposits of the remaining two unsuccessful bidders will be returned within three (3) days after the execution of the Contract, or, if no such Contract has been executed, within sixty (60) days after the date of opening bids. The deposit of the successful bidder will be returned only after he has duly executed the Contract and furnished the required bond and insurance.

3.7 Affidavit of Compliance

Each proposal must be accompanied by fully executed original copies of the Fair Employment Practices Affidavit of Compliance and the Affidavit of Compliance: Responsible Bidder Ordinance, both of which are enclosed with the Proposal packet. Failure to submit executed original copies of both affidavits with the Proposal may constitute sufficient cause for rejection of the bid.

3.8 Statement of Qualifications

Each Proposal must be accompanied by a Statement of Qualifications certifying that the bidder is registered to do business in the State of Illinois, has a permanent business office within forty (40) miles of the FRSA office at 3501 Kishwaukee Street in Rockford, IL, and provides documentation that the bidder possesses the appropriate financial, material, equipment, facility and personnel resources and expertise necessary to meet all contractual obligations. The bidder shall document no less than three (3) contracts for sanitary sewer system work within the past five (5) years having equal or greater value to the bid being submitted. FRSA reserves the right to request additional information, as needed, to evaluate bids prior to making an award.

3.9 Comparison of Proposals

Bids on item contracts will be compared on the basis of a total computed price arrived at by taking the sum of the estimated quantities of each item, multiplied by the corresponding unit prices and including any lump sum bids on individual items, in accordance with the estimate of quantities set forth in the Proposal form. Bids on lump sum contracts will be considered upon the basis of the lowest sum bid.

3.10 Acceptance of Bids and Basis of Award

The contract will be award, if at all, to the lowest responsive, responsible bidder. No bidder may withdraw his bid after the scheduled closing time for receipt of bids, for at least sixty (60) days. Four Rivers Sanitation Authority also reserves the right to reject any of all bids.

The bidder whose proposal is accepted will be notified of the Notice of Award issued by FRSA Executive Director. Within ten (10) days of issuance of a Notice of Award by the FRSA Executive Director, the successful bidder shall enter into a written contract for the performance of the Proposal work and shall furnish the required bonds and insurance certificates upon being served such Notice, personally, by mailing, or via email.

If the bidder does not comply with the Notice of Award, FRSA will issue a Deficiency Notice. If the bidder to whom the contract is awarded refuses or neglects to execute it or fails to furnish the required bond and insurance within five (5) days after receipt by him of Deficiency Notice, the amount of his deposit shall be forfeited and shall be retained by FRSA as liquidated damage and not as a penalty. It being now agreed that said sum is a fair estimate of the amount of damages that FRSA will sustain in case said bidder fails to enter into a contract and furnish the required bond and insurance. No plea of mistake in the bid shall be available to the bidder for the recovery of his deposit or as a defense to any action based upon the neglect or refusal to execute a contract.

3.10.1 Evaluation of Responsiveness

The responsiveness of bidders will be judged on the basis of the completeness of the bid submitted. To be responsive, a Bid must be submitted on the forms provided as part of the Bid Documents and comply with all the requirements of the Instruction to Bidders.

3.10.2 Evaluation of Responsibility

To be judged as responsible, the bidder shall:

- A. Have adequate financial resources for performance, the necessary experience, organization, technical qualifications, and facilities, or a firm commitment to obtain such by subcontracts;
- B. Be able to comply with the required completion schedule for the project;
- C. Have a satisfactory record of integrity, judgment, and performance, including, in particular, any prior performance on contracts from FRSA;
- D. Have an adequate financial management system and audit procedures, that provide efficient and effective accountability and control of all property, funds, and assets;
- E. Conform to the civil rights, equal employment opportunity and labor law requirements of the Bid Documents.
- F. Compliance with apprenticeship training participation as required in Four Rivers Sanitation Authority Ordinance NO. 25 26 M 18
- G. Have satisfactorily completed no less than three (3) sanitary sewer system repair contracts within the past five (5) years of equal or greater value to the bid being submitted.

3.11 The Rejection of Bids

FRSA reserves the right to reject any bid if the evidence submitted in the statement of the bidder's qualifications, or if investigation of such bidder fails to satisfy FRSA that such bidder is properly qualified to carry out the obligations and to complete the work contemplated therein. Any or all proposals will be rejected if there is reason to believe that collusion exists among the bidders. Conditional bids will not be accepted. FRSA reserves the right to reject any and all bids and to accept the bid which they deem most favorable to the interest of FRSA after all Proposals have been examined and canvassed.

3.12 Insurance and Bonding

Contractor shall provide all necessary insurance and bonds required to complete the project. No more than ten (10) calendar days subsequent to FRSA's issuance of an award letter, the Contractor shall provide documentation to prove that he has obtained all required insurance and bonds. FRSA shall be the sole judge as to the acceptability of any such proof.

Contractor shall provide and maintain all insurance and bonds as required by FRSA.

3.12.1 General

The Contractor shall ensure that:

- A. All insurance policies shall be specific to the project.
- B. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for Creek Crossing Protection – Alpine Park, Capital Project No. 2687.
- C. FRSA shall be named as Additional Insured in all policies; this shall include the Owners' Contractors' Protective Policy option.
- D. All completed operations coverages and bonds shall remain in force for a period of two (2) years following acceptance of the Project and completed operations shall stay in force for two (2) years following completion of the Project.

3.12.2 Insurance

The Contractor shall, for the duration of the Contract and for two (2) years following project acceptance, maintain the following:

- A. **General Liability**: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit. The Contractor shall provide "XCU" coverage.
- B. **Automobile Liability**: \$1,000,000 combined single limit per accident for bodily injury and property damage including coverages for owned, hired or non-owned vehicles, as applicable.
- C. **Workers' Compensation and Employers Liability**: Workers' Compensation limits as required by statute and Employers Liability limits of \$500,000 per accident and \$500,000 per disease.
- D. **Builder's Risk (Course of Construction)**: Contractor shall purchase and maintain builder's risk insurance utilizing an "All Risk" (Special Perils) coverage form, with limits equal to one hundred percent (100%) of the completed value of the Work with no coinsurance penalty provisions. Coverage shall be adjusted for any amendments to the Contract that affect the completed value of the Work. Builder's risk insurance shall be maintained until written confirmation of Owner's procurement of property insurance coverage. The insurance company providing the builder's risk coverage shall grant permission for FRSA to partially occupy or use the premises under construction prior to Substantial Completion without removing or affecting the coverage.

The builder's risk insurance shall also cover materials to be incorporated into the Work which are stored off-site, in-transit or at the place of manufacture.
- E. **Umbrella**: \$2,000,000 per occurrence/aggregate for contracts valued at \$500,000 or over, or \$1,000,000 for contracts below \$500,000. \$10,000 is maximum allowable self-retained limit.
- F. **Errors and Omissions**: If the Contractor performs professional services, he shall maintain errors and omissions insurance with a limit no lower than \$1,000,000 for the duration of the contract.

The policies shall contain, or be endorsed to contain, the following provisions in the General Liability and Automobile Liability Coverage's:

1. Unless otherwise provided in paragraph "c" of this section, FRSA, its officers, officials, employees and volunteers shall be covered as additional insureds as respects liability arising out of activities performed by or on insured's general supervision of the Contractor, products and completed operations of the Contractor, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to FRSA, its officers, officials, employees, volunteers, or agents.
2. Unless otherwise provided in paragraph "c" of this section, the Contractor's insurance coverage shall be primary insurance as respects FRSA, its officers, officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by FRSA, its officers, officials, employees, volunteers, or agents shall be excess of the Contractor's insurance and shall not contribute with it.
3. As an acceptable alternative to provisions "a" and "b" of this section, the Contractor may provide owner's and contractor's protective liability insurance with coverage limits, named insureds, and in conformity with all applicable specifications of this section.

4. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to FRSA, its officers, officials, employees, volunteers, or agents.
5. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
6. All Coverages — Each insurance policy required by this clause shall not be suspended, voided, canceled by either party, reduced in coverage, or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to FRSA.

3.12.3 Best's Ratings

FRSA shall be the sole judge of whether or not said insurer's ratios are satisfactory. FRSA's decision shall be final and FRSA's bidding procedures contain no appeal provision.

- A. **Alphabetical Rating:** For purposes of this Request for Bids, "insurer" shall mean any surety, insurance carrier, or other organization which proposes to provide an insurance policy or bond for the Contractor. No insurer or surety rated lower than "A-, Excellent" in the current *Best's Key Rating Guide* shall be acceptable to FRSA.
- B. **Financial Size Rating:** Provided an insurer's alphabetical rating is satisfactory, FRSA will examine said insurer's financial size rating.
 1. If **Best** classifies the insurer XII or larger, said insurer shall be acceptable to FRSA.
 2. If **Best** classifies the insurer as smaller than XII, but larger than VI, said insurer shall be submitted to FRSA's Director of Management Services and/or FRSA's insurance consultant for review.

Financial Size ratings less than VII are not acceptable and will disqualify the Contractor.

3.12.4 Performance Bond and Labor & Materials Payment Bond Form

The Contractor shall provide a Performance Bond and Labor & Materials Payment Bond form acceptable to FRSA. The performance bond shall be for either 100% of the contract price or for the Contractor's unit price times the estimated number of units, as applicable.

This Request for Bids contains a Performance Bond and a Labor & Material Bond form for the Contractor's use.

If the Contractor fails to provide acceptable bonds within the specified time, he shall be in default.

3.12.5 Correction of Contractor's Insurance or Bond Deficiencies

If FRSA determines that the Contractor's insurance or bond documentation does not conform to these specifications, FRSA shall inform said Contractor of the non-conformity. If said Contractor fails to provide conforming insurance or bond documentation within five (5) calendar days of FRSA's deficiency notice, he shall be in default.

3.12.6 Indemnification Clause

Contractor shall protect, indemnify, hold and save harmless and defend FRSA, its officers, officials, employees, volunteers, and agents against any and all claims, costs, causes, actions and expenses, including but not limited to attorney's fees incurred by reason of a lawsuit or claim for compensation arising in favor of any person, including the employees, officers, independent contractors, or subcontractors of the Contractor or FRSA, on account of personal injuries or death, or damages to property occurring, growing out of, incident to, or resulting directly or indirectly from the

performance by the Contractor or subcontractor, whether such loss, damage, injury or liability is contributed to by the negligence of FRSA or by premises themselves or any equipment thereon whether latent or patent, or from other causes whatsoever, except that the successful bidder shall have no liability for damages or the costs incident thereto caused by the sole negligence of FRSA.

The indemnification shall not be limited by a limitation on amount or type of damages payable by or for the Contractor or its subcontractor under any employee benefits act including, but not limited, to the Workers Compensation Act.

No inspection by FRSA, its employees, or agents shall be deemed a waiver by FRSA of full compliance with the requirements of the Contract. This indemnification shall not be limited by the required minimum insurance coverages in the Contract.

3.13 Tax Exemption

FRSA is exempt, by law, from paying bidder Federal Excise Tax and Illinois Retailers' Occupational Tax. Therefore, the bidder shall exclude those taxes from his bid. FRSA's tax exemption number is E9992-3696-06. The bidder shall include all other applicable taxes in his bid price.

Not to be used for bidding purposes

Article 3 – Detailed Specifications

1 General

This article contains detailed specifications related to Proposal items. The work to be done under each item is discussed along with units for payment and measurement for payment. However, the descriptions given do not necessarily outline all the work to be done under any item. All work shall conform to current editions of the following: *Standard Specifications for Water and Sewer Main Construction in Illinois*, *Four Rivers Sanitation Authority General Provisions and Technical Specifications for Sanitary Sewer Construction*, and the *Illinois Department of Transportation's (IDOT's) Standard Specifications for Road and Bridge Construction* (IDOT Standard Specifications).

Throughout these specifications, the term “Owner” and “FRSA” shall be synonymous.

In case of apparent contradictions between *Article 3 - Detailed Specifications*, *IDOT Standard Specifications*, and *General Provisions and Technical Specifications for Sanitary Sewer Construction*, *Article 3 - Detailed Specifications* shall govern.

Utility locations shown on the plans are based on records of varying reliability and are not guaranteed. The orientation and location (horizontal and vertical) of all existing underground utilities, such as gas mains, water mains, electric lines, field tiles, irrigation pipes, etc., shall be ascertained by the Contractor. The Contractor shall assume full responsibility all utility locations.

The general locations of the proposed work are governed by existing field conditions. Minor variations in alignment may be made to facilitate construction operations with prior FRSA approval.

Any construction not supervised by a Four Rivers Sanitation Authority (FRSA) Inspector will not be accepted.

No work shall be permitted on Sundays or FRSA Holidays without prior approval by the FRSA Director of Engineering.

The FRSA will not supervise, direct, control, have authority over or be responsible for the Contractor's means, methods, techniques, sequences, procedures of construction, safety precautions and programs incident thereto, or for any failure by the Contractor to comply with all applicable laws and regulations in performance of the specified work. The FRSA shall not be responsible for the Contractor's failure to perform or furnish the work in accordance with the Contract documents.

2 Notification, Access, and Special Considerations

2.1 Notification

The Contractor shall notify all utility companies prior to beginning any work. All underground utilities shall be located by the utility owner and special care shall be taken when excavating near underground utilities to avoid damage. Contractor shall call JULIE at (800) 892-0123 for utility locations in the project area, seventy-two (72) hours, minimum, prior to construction.

The Contractor shall notify the FRSA, Rockford Park District, and all affected property owners forty-eight (48) hours, minimum, prior to beginning any work. More advanced notification shall be provided if required by permits.

2.2 Access

The Contractor shall be responsible for the temporary maintenance of all roadways and drives for the duration of this project and shall maintain access to residences and businesses at all times during construction (i.e., drives, roadways, ramps, etc., must remain open or temporary access must be provided). All materials, equipment, labor, etc., necessary to ensure access is maintained shall be incidental to the Contract.

It shall be the Contractor's responsibility to secure any temporary or permanent access, storage or construction easements beyond those provided from property owner(s) if deemed necessary to perform the work as shown on the plans or defined in the specifications.

2.3 Special Considerations

The Contractor shall be responsible for contacting and coordinating the work near FRSA sanitary manhole 109-031 which may require the removal and replacement of guy wire anchors and temporarily supporting the existing power pole located at Sta. 901+77, 28' LT.

The Contractor shall be responsible for contacting and coordinating the work near FRSA sanitary manhole 109-031 which may require temporarily supporting an existing telephone pedestal located at Sta. 901+73, 5' LT.

2.4 Required Submittals

None.

2.5 Basis of Payment

No payment will be made for costs associated with notification, access, and special considerations.

3 Permit Requirements

3.1 General

The total disturbed area for this project is estimated to be 0.75 acres therefore no National Pollutant Discharge Elimination System (NPDES) permit is required.

FRSA will be responsible for procuring IEPA Sanitary Sewer Permits.

3.2 Required Submittals

1. None.

3.3 Basis of Payment

No payment will be made for costs associated with permitting.

4 Abandon and Fill Existing Sanitary Sewer

4.1 General

This work shall consist of abandoning various diameters of existing sanitary sewer mains and services by filling the pipes, as much as possible, with approved bentonite grout material or cellular concrete. The contractor shall properly bulkhead sewers prior to filling with grout.

All sewers scheduled for abandonment are listed and shown on plans. Abandonment shall be staged with other contract work to ensure uninterrupted sanitary sewer service is provided to current users.

The contractor shall verify no active user connections remain on the system prior to performing this work.

4.2 Materials

1. The bentonite grout material shall have the following mix design:
 - “Mix” – 60%
 - Mason Sand or Torpedo Sand – 40%
 - Bentonite Vul-Clay Powder – 5 pounds per 25 pounds of “Mix” and Sand Water – Add as required to facilitate pumping the material.
2. The “Mix” design is detailed below. All material in the “Mix” shall be pulverized, mixed and screened with 100% passing through a #4 sieve.
 - Light Sandy Clay Mixture – 80% (100% passing #4 Sieve)
 - Limestone Powder – 15% (100% passing #4 Sieve)
 - Mason Sand – 5%
3. The Bentonite Vul-Clay Powder shall have the following properties:
 - Ph: 9-10
 - Moisture: 9%
 - Grind % - 200 Mesh 88%
4. Cellular concrete conforming to *Section 1029 of IDOT Standard Specifications for Road and Bridge Construction*, current edition will also be allowed. Minimum compressive strength shall be 50 PSI at 28 days (ASTM C495/C796).

4.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Bentonite grout mix design.
2. Cellular concrete mix design.

4.4 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for ***Abandon and Fill Existing Sanitary Sewer***.

5 Aggregate Ditch Checks

5.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 280* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to install aggregate ditch checks for erosion control as shown on the plans.

This work shall be in accordance with the following standards or details:

IDOT Highway Standard 280001

This work shall consist of the construction of ditch checks to prevent siltation, erosion, or scour of ditches and drainageways, and shall be installed according to *Article 280.04 (a)* and *280.05* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

The course aggregate, filter fabric, and accumulated silt or debris shall be removed and disposed of immediately prior to completion of seeding and temporary stabilization. The riprap shall be leveled and left in place.

Filter fabric shall be measured for payment as a separate item.

5.2 Materials

1. Coarse aggregate shall be in accordance with *Article 1004.04* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.
2. Stone riprap shall be in accordance with *Section 281* and *Section 1005* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

5.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Material gradation certificates for coarse aggregate.

5.4 Method of Measurement

This work will be measured for payment according to *Article 280.07 (b)* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

5.5 Basis of Payment

This work shall be paid for at the Contract unit price per lump sum (L SUM) for ***Aggregate Ditch Checks***.

6 Bypass Pumping

6.1 General

The Contractor shall provide bypass pumping and shall be responsible for providing all piping, valves, pumps, power, fuel, plugs and other items to divert the flow of wastewater as required to complete proposed work.

All pumping systems shall have sufficient capacity to accommodate peak flows. The Contractor shall provide sufficient inspection personnel to ensure that no surcharging and no backups occur. If pumping is required on a 24-hour basis, the equipment shall be restricted to noise levels of ninety decibels (90 dB) or less.

All bypassed flows must be discharged to sanitary manholes approved by FRSA.

The Contractor shall be responsible for providing the current level of service to all properties and shall be liable for any damage caused by sewer back-ups resulting from this project.

Estimated peak flows (10-year rain event) for sanitary sewers on the project are as follows:

| | | | |
|---------------|-----------------------|---------------|-----------------|
| 109031-109107 | 8-inch diameter pipe | 35,814 GPD | Alternate Bid A |
| 109107-109028 | 12-inch diameter pipe | 785,000 GPD | Base Bid |
| 109028-109027 | 12-inch diameter pipe | 800,000 GPD | Base Bid |
| 109072-109071 | 21-inch diameter pipe | 3,785,000 GPD | Base Bid |

6.2 Required Submittals

The Contractor shall submit the following items for review and approval.

1. Temporary piping, fitting, and valve specifications.
2. Pump specifications.
3. Temporary pipe alignment.

6.3 Basis of Payment

This work shall be paid for at the Contract unit price per lump sum (L SUM) for ***Bypass Pumping Sanitary Sewers***.

7 Concrete Encasement for Sanitary Sewers

7.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to construct concrete encasements for sanitary sewers as shown on the plans.

This work shall be in accordance with the following standards or details:

FRSA Standard Detail Sheet

FRSA Standard Details ‘Concrete Encasement For Sanitary Sewers Detail’

This work shall consist of constructing a concrete encasement of sanitary sewers where shown on the plans. This work shall include all labor, equipment, materials, temporary construction access, dewatering, bypass pumping, bracing, shoring, creek diversion, concrete forming, excavation, trench backfill, etc. to complete the concrete encasements as shown on the plans or as directed by the FRSA.

The sanitary sewer pipe shall be exposed to allow for the construction of concrete encasements and forming. The outside of the sanitary sewer pipe shall be cleaned prior to placement of concrete.

The sanitary sewer pipe shall be braced and tied to eliminate horizontal or vertical movement from the original position during concrete placement. At a minimum, the pipe shall be tied at every pipe joint to eliminate floating of the pipe. The Contractor shall check the pipe elevation at every joint to ensure that floating is not occurring. The Contractor shall stage the encasement operation so that only a reasonable length of pipe is exposed and encased at one time, for the purposes of maintaining horizontal and vertical position. If sanitary sewer pipe begins to float or is not maintained in its original position during encasement operations, the operation shall immediately cease, and the Contractor shall re-evaluate the method of maintaining horizontal and vertical position before commencing encasement operations. Any deviation from horizontal or vertical position due to concrete encasement shall be corrected by the Contractor at no additional cost to the FRSA.

The proposed encasement shall be either earthen or wood formed. Earthen forming will not be permitted unless the soils are cohesive enough to support a vertical face and to prevent soil/concrete migration, as determined by the Engineer. The use of earthen or bank poured concrete shall be approved by the Engineer. Wood or manufactured forms shall be provided for the full length and width of each continuous unit formed. The forms shall be braced or tied to provide the structural capacity required to produce finished concrete to the lines and grades shown on the plans.

Prior to reinforcement bar placement, forms shall be coated with form oil. When the concrete surfaces are not exposed to view, wood forms may be saturated with water immediately prior to the placement of concrete in lieu of form oil.

Forms shall remain in place for a minimum of 24 hours or as directed by the Engineer. The method of form removal shall not result in damage to the concrete. If forms are removed prior to the completion of the required curing period, curing shall be resumed with an approved curing method for the remainder of the curing period.

No concrete shall be placed on ice, snow, or frozen foundation material. The method and manner of placing concrete shall be such as to avoid the segregation or separation of the aggregates or the displacement of reinforcement. The external surface of all concrete shall be thoroughly worked during the operations of placing in such a manner as to work the mortar against the forms to produce a smooth finish free of honeycomb and with a minimum of water and air pockets. Open troughs and chutes shall be extended as nearly as practical to the point of deposit. Dropping the concrete a distance of more than 5 feet will not be permitted. The concrete shall be consolidated by internal vibration. The Contractor shall provide and use a sufficient number of vibrators to ensure that consolidation can be started immediately after the concrete has been deposited in the forms. Concrete shall not be exposed to the action of water before setting, or be deposited in water, except with the approval of the Engineer.

Reinforcement bars of #4 size shall be placed at the bottom two corners of the encasement, for the full length of the encasement. Reinforcement shall have a 2" cover from the concrete surfaces.

Concrete encasement width shall be 8 inches (all sides) for 12 inch or less diameter sanitary sewer, and shall be 12 inches (all sides) for sanitary sewer having a diameter of greater than 12 inches.

Where proposed concrete encasement is to be joined to existing concrete encasement, the existing concrete encasement face shall be sawcut perpendicular to the pipe for a clean joint with the proposed concrete encasement. Twelve (12) ¾-inch diameter smooth dowels 18-inches long shall be drilled 9-inches into the sawcut encasement face at an even 12-inch to 15-inch center-to-center spacing and be epoxy grouted. Dowels shall have a minimum cover of 2-inches.

7.2 Materials

1. Concrete shall be IDOT Class DS according to *Section 1020* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.
2. Reinforcement shall be #4 size and shall conform to *Section 508* and *Section 1006.10* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

7.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. PCC mix designs.

7.4 Method of Measurement

This work will be measured for payment in place in Feet, along the horizontal alignment of the center of the encased pipe.

7.5 Basis of Payment

This work shall be paid for at the Contract unit price per foot (FOOT) for *Concrete Encasement for Sanitary Sewers*.

8 Construction Layout

8.1 General

This work shall be in accordance with *Check Sheet #9 Construction Layout Stakes*, revised January 1, 2022 of the *IDOT Supplemental Specifications and Recurring Special Provisions*, adopted January 1, 2026, as included in this Contract, except as modified herein, and shall consist of the Contractor providing all layout for the construction of this project to the lines and grades as shown on the plans. Reference points for the sanitary sewer centerline and benchmarks are shown on the plans.

The Contractor shall set sufficient stakes as are necessary for the Engineer to determine that the work is in conformance with the lines and grades shown on the plans. The Engineer may request construction layout stakes in addition to the Contractor's layout at any time.

8.2 Required Submittals

None.

8.3 Basis of Payment

This work shall be paid for at the Contract unit price per lump sum (L SUM) for *Construction Layout*.

9 Dewatering

9.1 General

Contractor shall use all means at his disposal to maintain dry trenches to the satisfaction of FRSA.

If dewatering is required, well point permits must be obtained from the Winnebago County Health Department (WCHD). Well point installation, maintenance, operation and removal shall be per WCHD requirements. The WCHD shall be notified prior to well placement and removal.

Groundwater will not be allowed to be pumped on existing ground surfaces or pavements where it may cause a traffic nuisance, or into existing sanitary sewers; it shall be discharged at points acceptable to FRSA, with all erosion control requirements and specifications taken into consideration.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be the Contractor's responsibility to provide any bonds, insurance, guarantees, etc., as required by said permits. Abandonment of dewatering facilities shall be performed in accordance with pertinent State and County requirements. If generators are required on a twenty-four (24) hour basis, the noise level shall be restricted to a level of 90 decibels or less. Approval to operate generators on a twenty-four (24) hour basis shall be obtained from the City of Rockford prior to implementation.

If trench dewatering becomes necessary, the Contractor shall exercise caution to avoid any detrimental impact to area wells. The Contractor shall be responsible for maintaining adequate water service to all residents and shall be solely liable for any wells that become dry as a result of construction.

9.2 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Copy of permits, as applicable.

9.3 Basis of Payment

No payment shall be made for the work included in this provision. The cost of this work shall be included in the various pay items of this contract.

10 Erosion Control Blanket

10.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 251 of the IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to install erosion control blanket as shown on the plans.

This work shall be in accordance with the following standards or details:

Illinois Urban Manual IUM-530

Any additional erosion control blanket than what is shown on the plans and that is required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA. The

Contractor shall remove and dispose of all erosion control blanket within 30 days of final site stabilization and approval by the FRSA.

10.2 Materials

1. Erosion control blanket and all appurtenances shall be in accordance with *Article 1081.10* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

10.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Material certifications for erosion control blanket.

10.4 Method of Measurement

This work will be measured in place in Square Yards.

10.5 Basis of Payment

This work shall be paid for at the Contract unit price per square yard (SQ YD) for ***Erosion Control Blanket***.

11 Filter Fabric

11.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 282* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to install filter fabric as shown on the plans.

This work shall be in accordance with the following standards or details:

FRSA Standard Details ‘Sanitary Sewer Protection – Major Creek Crossing Detail’

This work shall consist of preparing subgrade and installing filter fabric as shown on the plans or as directed by the Engineer.

The subgrade and filter fabric placement shall be per *Section 282* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition and to the satisfaction of the Engineer. Fabric shall be covered in a timely fashion with stone riprap. Filter fabric shall be wrapped into the rip rap section where shown in the plans and details.

11.2 Materials

1. Filter fabric shall be according to *Sections 282* and *1080* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

11.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Material certificates for filter fabric.

11.4 Basis of Payment

This work shall be paid for at the Contract unit price per square yard (SQ YD) for ***Filter Fabric***.

12 Manholes, Type A

12.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 602* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to construct storm drainage manholes as shown on the plans

The following IDOT Highway Standards shall be used:

IDOT Highway Standard 602401

IDOT Highway Standard 602601

IDOT Highway Standard 602701

IDOT Highway Standard 604001

This work shall include all earth excavation, trench backfill and compaction, saw cutting, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

New construction shall consist of furnishing and installing manholes, adjusting rings as required, and new frames and lids. This item shall include all materials, labor, transportation, connection to existing storm sewer or other pipes, shear resistant transition couplings and piping, as required, structure core-drills, all structures of the sizes and types required, dewatering, frames & lids, and structure adjustments. The contractor shall verify all existing pipe sizes and materials.

This work shall include adjusting catch basin, manhole, and valve vault frames to finish grade. The frame and lid shall be set 1/4 inch min. to 3/8 inch max. below final grade in pavement and at final grade in turf areas. Frames in the roadway shall be pitched to match the slope of pavement. All proposed rim elevations shall be obtained from the roadway reconstruction plan and profile plan sheets or from IDOT.

12.2 Materials

1. All materials shall be per *Article 602.02* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.
2. Solid lids shall have the following lettering, as specified by the type of manhole being adjusted: "STORM" or as otherwise directed by the Engineer.

Manhole adjustment insert riser rings are not approved for use.

12.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Manhole adjustment ring material specifications.
2. Manhole frame and lid material specifications.
3. Manhole adjustment ring sealant material specifications.
4. Manhole shop drawings including a specific detail for each structure showing the dimensions of the structure, location and spacing of steps and elevations and sizes of all pipe openings. A plan view shall be provided showing the orientation of pipe openings.

5. Material gradation certificates for trench backfill.

12.4 Basis of Payment

This work shall be paid for at the Contract unit price per each (EA) for *Manholes, Type A, 4' Diameter, Type 1 Frame, Closed Lid*.

13 Perimeter Erosion Barrier

13.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 280* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to install perimeter erosion barrier as shown on the plans.

This work shall be in accordance with the following standards or details:

IDOT Highway Standard 280001

This work shall include the furnishing, installation, maintenance, and removal of perimeter erosion barrier. All required perimeter erosion barrier shall be installed prior to any excavation taking place.

Any additional perimeter erosion barrier than what is shown on the plans and that is required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA. The Contractor shall remove and dispose of all perimeter erosion barrier within 30 days of final site stabilization and approval by the FRSA.

13.2 Materials:

1. Perimeter erosion barrier shall be of the silt filter fence type, and shall be in accordance with *Article 1080.02* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition and the appropriate detail included in the plans.

13.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Material certifications for silt filter fence.

13.4 Basis of Payment

This work shall be paid for at the Contract unit price per foot (FOOT) for *Perimeter Erosion Barrier*.

14 Precast Reinforced Concrete Flared End Sections

14.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 542* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor,

transportation, and workmanship to furnish and install precast reinforced concrete flared end sections as shown on the plans.

This work shall be in accordance with the following standards or details:

IDOT Highway Standard 542301

This work shall consist of furnishing and installing precast reinforced concrete flared end sections, with toe blocks, of various sizes. This item shall include all materials, labor, transportation, and connection to existing or new pipe culverts or storm sewer. The contractor shall verify all existing pipe sizes and materials.

This work shall include all earth excavation, trench backfill and compaction, and saw cutting as required, in accordance with all applicable IDOT provisions and specifications.

This work shall also include any incidental grading work in the vicinity of the end sections to achieve positive drainage.

14.2 Materials

1. Precast reinforced concrete end sections shall be according to *Article 542.07(b) of the IDOT Standard Specifications for Road and Bridge Construction*, current edition, and IDOT Highway Standard 542301.

14.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Shop drawings for end sections.

14.4 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for ***Precast Reinforced Concrete Flared End Section, 24"***.

15 Remove Existing Flared End Section

15.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to remove and dispose of flared end sections as shown on the plans.

This work shall consist of completely removing end sections of various sizes and materials, and all bedding, toe blocks, and appurtenances.

15.2 Required Submittals

None.

15.3 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for ***Remove Existing Flared End Section***.

16 Remove Existing Storm Manhole

16.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to remove and dispose of flared storm manholes as shown on the plans.

This work shall consist of completely removing storm manholes of various sizes and materials, all bedding, and appurtenances.

16.2 Required Submittals

None.

16.3 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for **Removing Manholes**.

17 Riprap Slurry

17.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to grout riprap in place for erosion control or creek crossing protection as shown on the plans.

This work shall be in accordance with the following standards or details:

FRSA Standard Details ‘Sanitary Sewer Protection - Major Creek Crossing Detail’

This work shall include furnishing and placing a riprap slurry or grout on stone riprap as shown on the plans or as directed by the Engineer. Riprap shall be grouted where shown on plans and details with 100% surface coverage to stabilize riprap while leaving the top 4 inches of riprap exposed. Care shall be taken to keep the placed grout within the limits shown on the plans and details. The Contractor shall remove excess grout from outside of these limits. The Contractor shall establish a uniform placement rate which obtains the desired effect of providing a grout to fill voids and bond individual rocks. Grout shall be brushed from the top of rocks to the voids if needed to maintain 4 inches of exposed rock. Grout shall thoroughly fill voids to the bottom of the riprap section. The Contractor will be required to remove and replace grout that does not meet the above specifications at no additional cost to the FRSA.

Grout shall be placed when the air temperature is above 40° F and the forecast for the work site does not predict a low temperature of 32° F or less for 48 hours. Grout shall not be placed in running or standing water.

The Contractor shall be responsible for coordinating, establishing, and demonstrating an acceptable grout placing technique with the Engineer at the start of construction.

This work shall include furnishing, maintaining, and removing a suitable concrete wash-out container. Concrete shall not be placed until this container is available for use.

17.2 Materials

1. Grout shall consist of a mixture of portland cement, sand, 5/8 inch minimum size pea gravel, and water proportioned and mixed to provide an air entrained, high slump, and readily pumpable slurry. Cement shall be not less than 5 bags per cubic yard. Hardened grout shall obtain a minimum compressive strength of 2000 psi at 28 days.

17.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Grout mix design.

17.4 Basis of Payment

This work shall be paid for at the Contract unit price per square yard (SQ YD) for **Riprap Slurry**.

18 Rock Excavation For Sanitary Sewer

18.1 General

This work shall conform to FRSA requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to excavate, remove, and dispose of rock for the installation of sanitary sewer related items as shown on the plans.

The Contractor shall demonstrate by all possible standard methods, to the Engineer, that the material encountered while excavating within the lines and grades shown on the plans and the payable width as described in T.S. 2:2 (c) of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford* is not removable with conventional sewer excavation equipment before being classified as rock excavation.

Blasting will not be allowed on this project. Contractor shall monitor vibrations of rock removal efforts and shall assume full responsibility for any claims of damage to adjacent structures (within 100' of trench).

The maximum trench width pay limit shall not exceed the outside diameter of the pipe (excluding pipe bell) plus eighteen inches (18") for pipe 8"-24" in diameter, or outside diameter of the pipe (excluding pipe bell) plus twenty-four inches (24") for pipe greater than twenty-four inches (24") in diameter.

The maximum trench width pay limit therefore shall be as follows:

| Nominal Pipe Diameter | Max. Trench Width Pay Limit (Feet) | Nominal Pipe Diameter | Max. Trench Width Pay Limit (Feet) |
|-----------------------|------------------------------------|-----------------------|------------------------------------|
| 8 | 2.22 | 18 | 3.13 |
| 10 | 2.40 | 20 | 3.30 |
| 12 | 2.56 | 24 | 3.65 |
| 14 | 2.78 | 30 | 4.67 |
| 16 | 2.95 | 36 | 5.19 |

The maximum pay depth shall be 6 inches below the pipe invert.

The following criteria will be used to facilitate in the determination of whether or not the excavation will be considered rock excavation:

1. Reference to T.S. 2:3 / Rock Excavation of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford*.
2. Substantial reduction in production rate
3. Visual evidence of large boulders, rock, granite, trap quartzite, chert, limestone, hard sand stone, hard shale or slate, or other hard materials, in natural ledges or displaced masses which cannot be removed by a modern backhoe without resorting to the continuous use of pneumatic tools, blasting, barring or wedging for removal from their original beds.

The determination of what qualifies as legitimate rock excavation shall be made by the FRSA Inspector and shall not be limited to the above-mentioned criteria.

18.2 Method of Measurement

This work shall be measured by the Engineer based on the length and depth of material encountered in the field and a maximum payable width as described in these specifications. **No payment shall be made for rock excavation beyond these limits.**

18.3 Basis of Payment

This work shall be paid for at the Contract unit price per cubic yard (CU YD) for ***Rock Excavation for Sanitary Sewer***.

19 Sanitary Manholes

19.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to install sanitary manholes of various sizes as shown on the plans.

This work shall be in accordance with the following standards or details:

FRSA Standard Details ‘Standard Manhole Detail’

This work shall consist of furnishing and installing all materials, castings, casting seals, exterior joint seals, accessories, connection to existing sanitary sewers, equipment, tools, transportation, services and performance of all operations required to construct sanitary manholes of various sizes as shown and detailed on the plans or as directed by the FRSA, all in accordance with Article 6:3 and 7 of the Technical Specifications, and the pipe manufacturers requirements.

This work shall include all earth excavation, trench backfill and compaction, and saw cutting, in accordance with all applicable IDOT provisions and specifications.

This item shall include all materials, labor, transportation, connection to existing sanitary sewer pipes, shear resistant transition couplings and piping, as required, reworking existing manhole inverts and/or benches as required, manhole core-drills, all manholes of the sizes and types required, dewatering, manhole frame & lids, and manhole adjustments.

This work may include rotating the cone section to a specific direction and removing and installing new steps, as directed by the Engineer.

Flat tops will not be permitted on four and five foot diameter manholes; eccentric cone sections must be a component of these manholes.

All sanitary sewer manholes shall be vacuum tested per ASTM C-1244 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to final acceptance.

Manhole Connections:

The Contractor shall field verify all alignments, elevations, sizes, and materials of all existing pipes to be connected. For manhole replacements, or when existing pipes are to be connected, precast concrete manhole bottom sections shall have only the out flow pipe hole precast prior to delivery to the site. All other openings shall be core drilled at the field verified correct and exact alignment and elevation. Alignment and elevation of manhole openings for pipes shall be verified after the existing manhole is removed. Connections to pipes shall be made with a flexible pipe to manhole connector that shall be installed in the field for the incoming pipes.

Manhole openings for pipe connections shall be 4 inches minimum from the nearest barrel joint. The manhole bottom, barrel, and cone section height configurations shall be such that 4 inches of clear space can be achieved between the pipe openings and the nearest barrel joint.

Pipe connections to new manholes shall be made by means of a watertight flexible pipe to manhole connector. All sanitary manholes equal to or greater than twenty-two feet (22') deep shall use pipe to manhole gaskets rated to a minimum of 15 psi hydrostatic pressure (A-LOK model X-CEL or FRSA approved equivalent).

All connections from the new manholes to existing sewer shall be made with PVC SDR 26 pipe (ASTM D2241, ASTM D3139) or as shown on the plans. A minimum of 3.0' of new PVC pipe shall be installed. This item shall include the entire length of connection(s) to existing sewer(s).

The Contractor shall construct a paved manhole bench in each manhole per the standard details or per the Engineer's direction. Manhole benches shall have a minimum slope of two inches (2") per foot.

Manhole Steps:

FRSA approved manhole steps shall be provided with a maximum spacing of 16".

Manhole Adjustment:

Manhole adjustment shall consist of furnishing and installing new adjusting rings as required, furnishing and installing new frames and lids, and furnishing and installing exterior manhole adjustment seals.

This work shall include adjusting manhole frames to finish grade. The frame and lid shall be set 1/4 inch min. to 3/8 inch max. below final grade in pavement and at final grade in turf areas. All proposed rim elevations shall be obtained from the roadway reconstruction plan and profile plan sheets or from the Resident Engineer.

The combination of new adjusting rings shall be such that the minimum number of rings possible are used.

Allowable types of adjusting rings include precast concrete and expanded polypropylene (EPP). These can be used in conjunction with each other, except that a precast concrete ring shall not be placed over an EPP ring.

For precast concrete adjusting rings:

All adjusting ring joints, as well as the joint between the frame and adjustment ring, shall be sealed watertight by means of an all-weather rubber butyl sealant designed for the purpose of sealing concrete structures water-tight. The adjusting ring surface shall be dry and free of foreign material. The surface shall be dried and heated with a weed burner when outside temperatures are less than optimum for adhesion of the sealant to the concrete.

Frames in the roadway shall be pitched to match the slope of pavement. EPP taper rings are required when frames are pitched.

For expanded polypropylene (EPP) adjusting rings:

The use of EPP adjustment rings shall be according to Sections 602 and 1043 of the IDOT Standard Specifications, and Supplemental Specifications & Recurring Special Provisions, most recent editions. The EPP adjustment rings shall be installed according to the manufacturer's instructions. If the top surface of the manhole is not level, even, or is irregular, a non-shrink grout shall be placed to create a level surface and the first EPP ring shall be bedded and leveled in the non-shrink grout. The joints between the manhole, all adjustment rings, and the frame shall be sealed with the manufacturer's recommended/specified adhesive. The top ring shall be a 'finish ring' when pitching the frame is not necessary.

Frames in the roadway shall be pitched to match the slope of pavement. The top ring shall be a tapered 'adjustment' ring when pitching the frame is required. Shimming is not an acceptable method of pitching when using EPP rings. The upper most ring shall have grooves on the lower surface and a flat upper surface.

External adjustment seals are required, regardless of the type of adjustment rings used. Heat shrinkable adjustment seals shall not be used with EPP rings.

The maximum height of adjustment shall be 12 inches. The distance between the top of the frame to the first manhole step shall be no more than 30 inches. A maximum of one (1) 2 inch adjusting ring will be allowed.

The Contractor shall install an FRSA approved exterior adjustment seal on all manholes as shown on the FRSA Standard Detail sheet.

19.2 Materials

1. Adjusting rings:

- a. Precast concrete adjusting rings shall be standard reinforced concrete pipe pattern and shall conform to ASTM C478 and ASTM C139. There shall be no spalled edges or cracks. Precast concrete adjusting rings shall be size 4 inch height or greater.
- b. Expanded polypropylene (EPP) rings shall be in accordance with Section 1043 of the IDOT Standard Specifications.

2. Adjusting ring sealant:

- a. Precast concrete adjusting ring sealant shall be a flexible rubber butyl pre-formed sealant designed for the purpose of making concrete structure joints water-tight. Material shall conform to ASTM C990.
- b. EPP ring sealant used for watertight installation of the EPP rings shall meet ASTM C 920,

Type S, Grade NS, Class 25, uses NT, T, M, G, A, and O.

3. Manhole exterior adjustment seals (chimney seals) shall be of a rubber compound in accordance with ASTM C-923 and shall have two stainless steel compression bands also in accordance with ASTM C-923.
4. Manhole frames & lids: Manhole frames and lids shall be per the approved frames and lids in the table below:

| Approved Frames & Lids | | | | |
|------------------------|--------------|-------------|-------------------|-----------------|
| | Neenah Frame | Neenah Lid | East Jordan Frame | East Jordan Lid |
| Regular | 1670-2004 | R-1670-0358 | 00111711 | 00111732 |
| Low Profile | 1670-2008 | R-1670-0358 | --- | --- |
| Bolt Down * | 1915JT08 | | --- | --- |

** For manholes connected to mains 18" diameter or larger, or for manholes located in flood prone areas, frames & lids shall be the bolt down type.*

5. Precast concrete barrel and cone sections shall conform to ASTM C478 and shall be free of spalling or cracks. All manholes shall be vacuum tested per ASTM C124493 Standard Test Method For Concrete Sewer Manholes By The Negative Pressure (Vacuum) Test prior to placing into service.
6. Precast concrete barrel and cone joint sealant shall be a flexible rubber butyl pre-formed sealant designed for the purpose of making concrete structure joints water-tight. Material shall conform to ASTM C990.
7. Precast concrete barrel and cone external joint seals shall be a single, full circumference compression band in accordance with ASTM c-877 (Type II); MarMac MacWrap or approved equal.
8. Manhole steps shall be 10 inches long & 12 inches wide in accordance with ASTM C-478; Neenah R-1982-F, M.A. Industries PS-1, or approved equal.
9. Flexible pipe to manhole connectors shall meet the requirements of ASTM C923. Integrally cast and expandable gaskets are acceptable.
10. All connections from the new manholes to existing sewer shall be made with PVC SDR 26 pipe (ASTM D2241, ASTM D3139) or as shown on the plans. A minimum of 3.0' of new PVC pipe shall be installed.
11. Pipe transition couplings shall be Fernco 5000 series shear resistant or approved equivalent repair couplings, made of flexible PVC compound with 316 stainless steel clamps and stainless steel rings. Transition couplings shall conform to the applicable parts of ASTM D5926 and C1173.
12. Crushed stone pipe bedding shall be IDOT CA-7 gradation conforming to Class IA per ASTM Standard D2321.
13. Select trench backfill shall be IDOT gradation FA-6.
14. Manhole adjustment insert riser rings are not approved for use.

19.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Manhole adjustment ring material specifications.
2. Manhole adjustment ring sealant material specifications.
3. Manhole exterior adjustment seal (chimney seal) material specifications.
4. Manhole frame and lid material specifications.
5. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and elevations and sizes of all pipe openings. A plan view shall be provided showing the orientation of pipe openings.
6. Manhole barrel and cone joint sealant material specifications.
7. Manhole barrel and cone external joint seal material specifications.
8. Manhole step material specifications.
9. Pipe to manhole connector specifications.
10. Pipe material specifications (for connections to existing sewers).
11. Pipe transition coupling material specifications.
12. Material gradation certificates for pipe bedding.
13. Material gradation certificates for trench backfill.

19.4 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for ***Sanitary Manholes, 4' Dia.***

20 Sanitary Manholes To Be Removed And Replaced

20.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to remove and replace sanitary manholes of various sizes as shown on the plans.

This work shall be in accordance with the following standards or details:

FRSA Standard Details 'Standard Manhole Detail'

This work shall consist of removing existing sanitary sewer manholes of various diameter or size, including outside drop manholes, and replacing with new precast manholes of various sizes as required to construct this project. This work shall consist of furnishing all materials, castings, casting seals, exterior joint seals, accessories, outside drop connections, connection to existing sanitary sewers, equipment, tools, transportation, rock/earth excavation, dewatering, bypass pumping, trench backfill, services and performance of all operations required to construct sanitary

manholes as shown and detailed on the plans or as directed by the FRSA, all in accordance with Article 6:3 and 7 of the Technical Specifications, and the pipe manufacturers requirements.

Manhole Removal:

Any existing sanitary sewers to be abandoned as part of the manhole removal shall be bulkheaded with a watertight plug. This work shall conform to *Section 605.03* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

This work shall include all equipment, materials, labor, transportation, and workmanship to remove and dispose of sanitary manholes as shown on the plans.

This work shall include all rock/earth excavation, trench backfill and compaction, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

Manhole Replacement:

This work shall include all items outlined in *Article 3, Section 16 - Sanitary Manholes*.

20.2 Materials

All materials shall be in accordance with *Article 3, Section 16.2*.

20.3 Required Submittals

All submittals shall be in accordance with *Article 3, Section 16.3*.

20.4 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for *Sanitary Manholes To Be Removed & Replaced, 4' Dia.*

21 Sanitary Sewer Main Line Repair

21.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to repair sanitary sewer as shown on the plans.

This work shall be in accordance with the following standards or details, as applicable:

FRSA Standard Details ‘Rigid Pipe Bedding Detail’

This work shall include all earth excavation, trench backfill and compaction, saw cutting, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

This work consists of removing and replacing specified sections of sanitary sewer. Work includes permits, mobilization/transportation, site access, site preparation, supervision, and all labor, equipment and materials needed to: complete sanitary sewer main line repairs on various diameters and materials of sanitary sewer pipe with new sanitary sewer pipe on grade and in line. The work shall also include rock/earth excavation, removal and disposal of existing pipe, new sanitary sewer pipe, transition couplings, temporary by-pass pumping, pipe bedding, trench backfill, compaction, restoration as required, temporary plugs, trench dewatering, utility relocation, erosion control, dust

control and any ancillary items necessary for the completion of this project not specifically provided for elsewhere or herein.

Pipe edges shall be square and free of jagged edges. Connection shall be made to structurally sound pipe with positive slope as verified by the FRSA Inspector. Connections to existing sanitary sewer pipe shall be made by means of transition couplings.

The Contractor shall be responsible for locating the Main Line repair limits in the field; both for the J.U.L.I.E. locate and repair. The FRSA will provide the Contractor a copy of the T.V. reports for sewers to be repaired on this project. Reference the TV logs for accurate sewer service locations.

The Contractor shall be responsible for any costs associated with corrective measures required to replace or repair items not meeting the requirements of these specifications as determined by the FRSA. All materials, pipes and fittings shall be transported, handled, delivered, and stored as recommended by the manufacturer. Any new pipe or fittings damaged before or during construction shall be repaired or replaced as recommended by the manufacturer or as required by the FRSA, at the Contractor's expense, before proceeding further.

This work shall include temporary connections when required by construction staging. Temporary connections shall be approved by the FRSA inspector and shall ensure adequate sanitary service until the permanent connections can be made. Temporary connections shall be made beyond the staged construction line at a location adequate to protect any items or permanent surfaces from any damage that are to be constructed between the time the temporary connection is made and the time that it is removed and the installation of the sanitary sewer is resumed. All temporary connections shall be considered incidental to this item.

Pipe Bedding:

Pipe bedding for rigid pipe shall be per the FRSA 'Rigid Pipe Bedding Detail'. Crushed stone pipe bedding for rigid pipe shall be IDOT CA-7 gradation conforming to ASTM Standard C-21 Class B. Bedding material for rigid pipe shall be placed from six inches (6") minimum below the bottom of the pipe to the spring line of the pipe and shall be haunched in place along the lower side of the pipe, ensuring that all voids are eliminated. Granular trench backfill material shall be placed from the spring line of the pipe to twelve inches (12") above the top of the pipe, and shall be compacted to 90% standard proctor density.

Bedding shall be graded such that it precludes the migration of trench wall material into the bedding. In the event that the trench bottom is unstable as determined by the FRSA, the Contractor shall undercut the trench as required and furnish and install foundation material. The foundation material shall be a coarse aggregate material IDOT CA-1 gradation that will inhibit the migration of the bedding material into trench bottoms and walls and shall extend to the limits of the pipe bedding detail on the FRSA Standard Detail Sheet. Sanitary sewer trench sub-base improvement shall be completed at no additional cost to the FRSA, unless a specific pay item is provided for this work.

Trench Backfill:

This work shall include all items outlined in *Article 3, Section 16 – Sanitary Sewer*.

21.2 Materials

1. Ductile Iron Pipe: Ductile iron pipe shall be thickness class 52, centrifugally-cast. Cement

lined, meeting the requirements of AWWA C151. Joints shall meet the requirements of AWWA C111.

2. Pipe transition couplings shall be Fernco 5000 series shear resistant or approved equivalent repair couplings, made of flexible PVC compound with 316 stainless steel clamps and stainless steel rings. Transition couplings shall conform to the applicable parts of ASTM D5926 and C1173.
3. Crushed stone pipe bedding shall be IDOT CA-7 gradation conforming to Class IA per ASTM Standard D2321.
4. Select trench backfill shall be IDOT gradation FA-6.

21.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Pipe material specifications.
2. Fitting material specifications.
3. Coupling and transition coupling material specifications.
4. Material gradation certificates for pipe bedding material.
5. Material gradation certificates for trench backfill material.

21.4 Method of Measurement

This work shall be measured horizontally along the centerline of the pipe. If the repair begins or terminates at a manhole, the measurement shall be to the outside of the manhole wall.

21.5 Basis of Payment

This work shall be paid for at the Contract unit price per foot (FOOT) for *Sanitary Sewer Main Line Repair, 12" Dia.*

22 Sanitary Sewer

22.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to install sanitary sewer as shown on the plans.

This work shall be in accordance with the following standards or details, as applicable:

FRSA Standard Details 'Flexible Pipe Bedding Detail'

This work shall consist of the installation of sanitary sewer. Work includes connection to existing manholes, bypass pumping, earth excavation, trench backfill and compaction, pipe bedding, temporary sewer main connections, temporary sewer main plugs, installing new sewer pipe (various sizes and types, as required) on grade and in line according to the plans and specifications. The work also includes trench dewatering, power tamping, grading and dust control, and all else that is necessary for the completion of the work and not included elsewhere. Utility relocation shall be included in the work covered in this item unless specifically provided for elsewhere.

This work shall include all earth excavation, trench backfill and compaction as required, in accordance with all applicable IDOT provisions and specifications. Rock excavation for sanitary sewers will be paid for under a separate item.

Sanitary sewer pipe construction that varies +0.05 feet from the proposed grade and/or +0.15 feet from the proposed line will not be accepted. This does not preclude the FRSA from requiring closer tolerances in the field, nor does it create any obligation for the FRSA to establish the grade or line during construction. The Contractor is solely responsible for maintaining proper lines and grades for the work. The Contractor shall provide at least one laser device for setting lines and grades for subgrade and pipe invert on all parts of the work. The device(s) shall be of acceptable design and maintained in good working condition throughout the length of the project. The Contractor shall employ workmen with the expertise to operate the device(s). The laser device(s) shall be considered as a convenience to the Contractor and will be operated at no extra cost to the FRSA. When directed by the FRSA, the Contractor shall provide a blower for use in conjunction with the laser. The Contractor shall also provide, and have available on site at all times, a calibrated level and level rod.

When required for any part of a sewer section, watermain-quality pipe shall extend for the entire length between manholes or to the right-of-way or easement line.

This work shall include temporary connections when required by construction staging. Temporary connections shall be approved by the FRSA inspector and shall ensure adequate sanitary service until the permanent connections can be made. Temporary connections shall be made beyond the staged construction line at a location adequate to protect any items or permanent surfaces from any damage that are to be constructed between the time the temporary connection is made and the time that it is removed and the installation of the sanitary sewer is resumed. All temporary connections shall be considered incidental to this item.

Pipe Bedding:

Pipe bedding for flexible pipe shall be per the FRSA 'Flexible Pipe Bedding Detail'. Crushed stone pipe bedding for flexible pipe shall be IDOT CA-7 gradation conforming to ASTM Standard D2321 Class IA. Bedding material for flexible pipe shall be placed from six inches (6") minimum below the bottom of the pipe to the spring line of the pipe and shall be haunched in place along the lower side of the pipe, ensuring that all voids are eliminated. Bedding material shall be placed from the spring line of the pipe to twelve inches (12") minimum above the top of the pipe.

Bedding shall be graded such that it precludes the migration of trench wall material into the bedding. In the event that the trench bottom is unstable as determined by the FRSA, the Contractor shall undercut the trench as required and furnish and install foundation material. The foundation material shall be a coarse aggregate material IDOT CA-1 gradation that will inhibit the migration of the bedding material into trench bottoms and walls and shall extend to the limits of the pipe bedding detail on the FRSA Standard Detail Sheet. Sanitary sewer trench sub-base improvement shall be completed at no additional cost to the FRSA, unless a specific pay item is provided for this work.

Trench Backfill:

Trench backfill and compaction, whether with furnished or excavated material, shall be included in this item. The Contractor shall backfill the entire width of all trenches as soon as conditions permit. The trench shall be backfilled to the existing subsoil or proposed subgrade elevation as

rapidly as conditions permit. The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations. The Contractor shall use reasonable care while backfilling over the sewer. No materials such as rocks, boulders, compacted or frozen clay or soil masses greater than 1 cubic foot, shall be allowed to be dropped directly on the sewer pipe. If these materials are present in the backfill, the Contractor shall bring bedding material to a point 24 inches above the crown of the pipe. The cost of this additional bedding material shall be considered incidental to this item.

Backfill material and compaction shall be as follows:

1. In unpaved areas, such as agricultural fields, yards, parkways, ditches, unimproved/recreational land, etc., and not within 2 feet of pavements or structures, backfill shall consist of suitable excavated material. Suitable excavated material shall be free of brush, roots, debris, un-natural materials, and excessively large rocks, boulders, or compacted or frozen clay or soil masses. Suitable excavated material shall not be in a fluid, sloppy state or have excessive moisture. Excavated material containing excessive moisture, as determined by the FRSA, shall be allowed to dry as needed prior to being deemed suitable. Suitable excavated material shall be placed in uniform loose lifts not exceeding 24 inches, and shall be mechanically compacted to the satisfaction of the FRSA.
2. In trenches within 2 feet of all pavements, curb, gutters, curb and gutter, shoulders, sidewalks, driveways, parking lots, etc., backfill shall consist of approved select trench backfill to backfill trenches to subgrade elevation. Select trench backfill shall be IDOT gradation FA-6, or excavated material approved as such, mechanically compacted in 12 inch maximum loose lifts to subgrade elevation. Select trench backfill shall be in accordance with Section 208 and Article 1003.04 of the IDOT Standard Specifications for Road and Bridge Construction, current edition. Select trench backfill shall be placed and mechanically compacted with a vibratory plate, vibratory roller, or other approved equipment-mounted compaction equipment. Water-jetting, ponding or flooding will not be permitted as a means of trench compaction.

Select trench backfill shall be compacted to ninety-five percent (95%) of Standard Proctor density. All compaction tests shall be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. Compaction testing shall occur on the first full day of backfilling operations. The independent testing firm shall work with the Contractor to establish appropriate and adequate compaction methods and patterns. Select trench backfill moisture content shall be modified if necessary and as operations progress. If the tests do not meet the compaction requirements specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met. If initial tests indicate compaction requirements are being met, no further lift testing will be required unless the method, equipment, or material (including moisture content) changes.

Low Pressure Air Testing:

All new sanitary mains and services that are not connected to buildings shall be low pressure air tested prior to final acceptance. Low-pressure air testing of sanitary sewers shall use an allowable timed pressure drop of 0.5 psig.

**Minimum Specified Time Required for a 0.5 psig Pressure Drop
For Size and Length of Pipe Indicated for Q=0.0015**

| 1 Pipe Diameter (inches) | 2 Minimum Time (min:sec) | 3 Length For Minimum Time (ft.) | 4 Time for Longer Length (sec.) | Specification Time for Length (L) Shown (min:sec) | | | | | | | | |
|-----------------------------------|-----------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | | | 100 ft. | 150 ft. | 200 ft. | 250 ft. | 300 ft. | 350 ft. | 400 ft. | 450 ft. | |
| 4 | 1:53 | 597 | .190 L | 1:53 | 1:53 | 1:53 | 1:53 | 1:53 | 1:53 | 1:53 | 1:53 | 1:53 |
| 6 | 2:50 | 398 | .427 L | 2:50 | 2:50 | 2:50 | 2:50 | 2:50 | 2:50 | 2:50 | 2:51 | 3:12 |
| 8 | 3:37 | 298 | .760 L | 3:37 | 3:37 | 3:37 | 3:37 | 3:37 | 3:38 | 4:26 | 5:04 | 5:42 |
| 10 | 4:43 | 239 | 1.187 L | 4:43 | 4:43 | 4:43 | 4:57 | 5:56 | 6:55 | 7:54 | 8:54 | 9:54 |
| 12 | 5:40 | 199 | 1.709 L | 5:40 | 5:40 | 5:42 | 7:08 | 8:33 | 9:58 | 11:24 | 12:50 | 14:16 |
| 15 | 7:05 | 159 | 2.671 L | 7:05 | 7:05 | 8:54 | 11:08 | 13:21 | 15:35 | 17:48 | 20:02 | 22:16 |
| 18 | 8:30 | 133 | 3.846 L | 8:30 | 9:37 | 12:49 | 16:01 | 19:14 | 22:26 | 25:38 | 28:51 | 32:04 |
| 21 | 9:55 | 114 | 5.235 L | 9:55 | 13:05 | 17:27 | 21:49 | 26:11 | 30:32 | 34:54 | 39:16 | 43:38 |
| 24 | 11:20 | 99 | 6.837 L | 11:24 | 17:57 | 22:48 | 28:30 | 34:11 | 39:53 | 45:35 | 51:17 | 57:00 |
| 27 | 12:45 | 88 | 8.653 L | 14:25 | 21:38 | 28:51 | 36:04 | 43:13 | 50:30 | 57:42 | 64:54 | 72:07 |
| 30 | 14:10 | 80 | 10.683 L | 17:48 | 26:43 | 35:37 | 44:31 | 53:25 | 62:19 | 71:13 | 80:07 | 89:01 |
| 33 | 15:35 | 72 | 12.946 L | 21:33 | 32:19 | 43:46 | 53:42 | 64:38 | 75:24 | 86:10 | 96:57 | 107:43 |
| 36 | 17:00 | 66 | 15.384 L | 25:39 | 38:28 | 51:17 | 64:06 | 76:55 | 89:44 | 102:34 | 115:23 | 128:12 |

Pipe Deflection Testing:

After sewer installation, backfilling and compaction, all flexible sanitary main pipe shall be thoroughly cleaned and flushed with water and then, if not previously deflection tested as elsewhere specified herein, the installed pipe shall be deflection tested by the Contractor at his own expense, and in a manner acceptable to the FRSA. Deflection testing shall be performed at least thirty (30) days after the trench has been backfilled.

Testing of all sanitary mains shall be done with a fixed or adjustable steel deflection gauge. The diameter of the gauge shall be set at ninety-five percent (95%) of the undeflected inside diameter of the flexible pipe. The deflection gauge shall stop at any area in a flexible underground pipeline having vertical ring deflection greater than five percent (5%).

If possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines. Where deflection is found to be in excess of five percent (5%) of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, after the initial testing, should the deflected pipe fail to return to the original site (inside diameter) the line shall be replaced.

22.2 Materials

1. Pipe: PVC SDR 26 with a pipe stiffness of 115 psi meeting the requirements of ASTM D3034. Joints shall meet the requirements of ASTM D3212.
2. PVC fittings: Gasketed SDR 26 meeting the requirements of ASTM D3034, ASTM F1336 and ASTM D3212.
3. Crushed stone pipe bedding shall be IDOT CA-7 gradation conforming to per ASTM Standard D2321 Class 1A.
4. Select trench backfill shall be IDOT gradation FA-6.

22.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Pipe material specifications.
2. Fitting material specifications.
3. Material gradation certificates for pipe bedding material.
4. Material gradation certificates for trench backfill material.

22.4 Method of Measurement

This work shall be measured horizontally along the centerline of the pipe from center of manhole lid to center of manhole lid.

22.5 Basis of Payment

This work shall be paid for at the Contract unit price per foot (FOOT) for *Sanitary Sewer, PVC SDR 26, 08" Dia.*

23 Seeding and Fertilizing

23.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 250* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to seed and fertilize as shown on the plans.

Any additional seeding and fertilizing than what is shown on the plans and that is required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA.

The areas to be seeded shall be free of all foreign objects, debris, or excessively large clumps or clods, at the discretion of the Engineer. Seedbed preparation shall be per *Article 250.05* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. The seedbed shall be prepared to the satisfaction of the Engineer.

All seeded areas shall be maintained for a period of 30 days after application, which shall include supplemental watering and mowing as directed by the Engineer.

Fertilizer shall be applied in accordance with *Article 250.04* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

23.2 Materials

1. Seed mixtures shall be according to the type specified on the plans, and according to *Article 250.07* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. Seed shall be in accordance with *Article 1081.04* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.
2. Fertilizer shall be in accordance with *Article 1081.08* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

23.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Seed mixtures.

2. Fertilizer specifications and certifications.

23.4 Method of Measurement

This work will be measured in place in Square Yards.

23.5 Basis of Payment

This work shall be paid for at the Contract unit price per square yard (SQ YD) for *Seeding, Class 1 and Fertilizing*.

24 Stabilized Construction Entrance

24.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to install, maintain, and remove stabilized construction entrance(s) as shown on the plans.

This work shall be in accordance with the following standards or details:

Illinois Urban Manual IL-630

This work shall consist of the furnishing, installation, maintenance, and removal of all materials required for stabilized construction entrance(s). All required stabilized construction entrances shall be installed prior to any excavation taking place.

Any additional areas of stabilized construction entrance than what is shown on the plans and that is required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA. The Contractor shall remove and dispose of all stabilized construction entrance materials within 30 days of final site stabilization and approval by the FRSA.

The coarse aggregate shall be a thickness of 6 inches or more. The length and width shall be as shown on the plans. The aggregate shall not be placed until the location has been inspected and approved by the Engineer.

The coarse aggregate shall be dumped and spread into place in horizontal layers not more than 3 feet in thickness. It shall be placed in a manner to produce a reasonable homogenous stable fill that contains no segregated pockets, fragments, or unfilled space. No compaction will be required beyond that resulting from placing and spreading operations.

All surface water flowing or diverted toward the construction entrance shall be piped through the entrance. Any pipe(s) used for this shall be included in the cost of this item. The stabilized construction entrance shall have positive drainage away from roadways.

The entrance shall remain in place and be maintained until the disturbed area is stabilized. Any sediment migrated onto public right-of-way shall be removed immediately. The aggregate and/or filter fabric shall be removed and replaced as needed or directed by the Engineer to effectively contain sediment and other material from leaving the construction site.

24.2 Materials

1. Aggregate shall be IDOT gradation CA-1 or CA-3 per *Section 1004 of the IDOT Standard Specifications for Road and Bridge Construction*, current edition.

2. Filter fabric shall be in accordance with *Article 1080.03* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

24.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Material certifications coarse aggregate.
2. Material certifications for filter fabric.

24.4 Method of Measurement

This work will be measured in place in Square Yards.

24.5 Basis of Payment

This work shall be paid for at the Contract unit price per square yard (SQ YD) for *Stabilized Construction Entrance*.

25 Stone Riprap for Sanitary Sewer Stream Crossing

25.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 281* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to furnish and install stone riprap as erosion control or protection for sanitary sewer stream crossings as shown on the plans.

This work shall be in accordance with the following standards or details:

FRSA ‘Sanitary Sewer Protection – Major Creek Crossing Detail’.

This work shall consist of earth excavation, removal and disposal of excavated material, preparing subgrade, installing filter fabric, installing bedding material, and installing stone riprap as shown on the plans or as directed by the Engineer.

The stream channel shall be restored to its pre-existing line and grade. The stream bed shall be graded uniformly. The cover over the sanitary sewer or sanitary sewer encasement will vary. Care shall be taken when working over sanitary sewers.

The subgrade and riprap placement shall be per *Section 281* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition and to the satisfaction of the Engineer.

Rip rap shall be placed (not dumped) in such a manner as to avoid displacing bedding material. Rip rap shall not be dropped from a height of more than 1 foot. Rip rap shall be placed and arranged so that a uniform, reasonably well graded surface with minimum voids is obtained.

Filter fabric shall be measured for payment as a separate item.

25.2 Materials

1. Stone riprap shall be gradation RR 5 according to *Sections 281* and *1005* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.
2. Bedding material shall be gradation RR 1 or RR 2 according to *Article 1005.01 (c)* of the *IDOT*

Standard Specifications for Road and Bridge Construction, current edition.

25.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Material gradation certificates for stone riprap.
2. Material gradation certificates for bedding material.

25.4 Basis of Payment

This work shall be paid for at the Contract unit price per square yard (SQ YD) for ***Stone Riprap for Sanitary Sewer Stream Crossing, Class A5***.

26 Storm Sewer Removal

26.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 551* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to remove storm sewers as shown on the plans.

This work shall consist of the complete removal and disposal of existing storm sewer pipes of various materials and sizes as shown on the plans. Disposal shall be in accordance with *Article 202.03* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

This work shall include all earth excavation, trench backfill and compaction, saw cutting as required, in accordance with all applicable IDOT provisions and specifications.

This work shall include plugging existing storm sewer main/manhole connections. This shall include reworking of existing manhole inverts, masonry bulkheads, all necessary fittings, couplings and disposal of existing pipe.

26.2 Required Submittals

None.

26.3 Method of Measurement

This work shall be measured for payment according to *Article 551.05* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

26.4 Basis of Payment

This work shall be paid for at the Contract unit price per foot (FOOT) for ***Storm Sewer Removal***, of the diameter specified.

27 Storm Sewers

27.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 550* of the *IDOT Standard Specifications for Road and Bridge*

Construction, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to furnish and install storm sewers as shown on the plans.

This work shall include all earth excavation, pipe, gaskets, trench backfill and compaction, and all other materials required to install storm sewers to the lines and grades shown on the plans. All joints shall be sealed with rubber gaskets.

This work shall include connections to existing or proposed storm manholes, inlets, or structures of varying materials.

Trench Backfill:

Trench backfill and compaction, whether with furnished or excavated material, shall be included in this item. The Contractor shall backfill the entire width of all trenches as soon as conditions permit. The trench shall be backfilled to the existing subsoil or proposed subgrade elevation as rapidly as conditions permit. The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations. The Contractor shall use reasonable care while backfilling over the sewer. No materials such as rocks, boulders, compacted or frozen clay or soil masses greater than 1 cubic foot, shall be allowed to be dropped directly on the sewer pipe. If these materials are present in the backfill, the Contractor shall bring bedding material to a point 24 inches above the crown of the pipe. The cost of this additional bedding material shall be considered incidental to this item.

Backfill material and compaction shall be as follows:

In unpaved areas, such as agricultural fields, yards, parkways, ditches, unimproved/recreational land, etc., and not within 2 feet of pavements or structures, backfill shall consist of suitable excavated material. Suitable excavated material shall be free of brush, roots, debris, un-natural materials, and excessively large rocks, boulders, or compacted or frozen clay or soil masses. Suitable excavated material shall not be in a fluid, sloppy state or have excessive moisture. Excavated material containing excessive moisture, as determined by the FRSA, shall be allowed to dry as needed prior to being deemed suitable. Suitable excavated material shall be placed in uniform loose lifts not exceeding 24 inches, and shall be mechanically compacted to the satisfaction of the FRSA.

In trenches within 2 feet of all pavements, curb, gutters, curb and gutter, shoulders, sidewalks, driveways, parking lots, etc., backfill shall consist of approved select trench backfill to backfill trenches to subgrade elevation. Select trench backfill shall be IDOT gradation FA-6, or excavated material approved as such, mechanically compacted in 12 inch maximum loose lifts to subgrade elevation. Select trench backfill shall be in accordance with *Section 208* and *Article 1003.04* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. Select trench backfill shall be placed and mechanically compacted with a vibratory plate, vibratory roller, or other approved equipment-mounted compaction equipment. Water-jetting, ponding or flooding will not be permitted as a means of trench compaction.

Select trench backfill shall be compacted to ninety-five percent (95%) of Standard Proctor density. All compaction tests shall be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. Compaction testing shall occur on the first full day of backfilling operations. The independent testing firm shall work with the Contractor to establish appropriate and adequate compaction methods and patterns. Select trench backfill moisture content shall be modified if necessary and as operations progress. If the tests do not meet the compaction

requirements specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met. If initial tests indicate compaction requirements are being met, no further lift testing will be required unless the method, equipment, or material (including moisture content) changes.

27.2 Materials

1. Storm sewer pipe shall be RCCP per *Section 1042* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition, ASTM C-76, and AASHTO M-170.
2. Storm sewer replacement pipe for removal/replacement at utility/sewer crossings shall be the same size and material as the existing pipe.
3. Rubber gaskets for storm sewer pipe shall be per *Section 1056* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition, and ASTM C-443.
4. Trench backfill shall be per *Article 208.02* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

27.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Pipe material certifications.
2. Material gradation certificates for trench backfill.

27.4 Method of Measurement

This work shall be measured for payment according to *Article 550.09* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition, except that trench backfill shall be included in the cost of this item, and will not be paid for separately.

27.5 Basis of Payment

This work shall be paid for at the Contract unit price per foot (FOOT) for *Storm Sewers, Class A, Type 1 24"* and *Storm Sewers, Class A, Type 2 15"*.

28 Tree Planting

28.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 253* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to furnish, plant, mulch, and brace the trees as shown on the plans.

This work shall be in accordance with the following standards or details:

- IDOT Region 2 / District 2 Standard 92.1 Details of Planting and Bracing Trees

Trees shall be laid out at a 30-foot minimum spacing as indicated on the construction plans. Any variance from the layout indicated on the construction plans shall be approved by the Engineer prior to planting.

Tree holes shall be excavated to a size in accordance with *IDOT Region 2 / District 2 Standard 92.1 Details of Planting and Bracing Trees*. Excess material excavated from the holes shall be removed from the site by the Contractor.

Once the tree has been properly set in the hole, prepared backfill shall be placed around the root system level with the existing grade around the hole. Prepared backfill shall consist of suitable soil removed from the hole mixed with topsoil as needed to provide a sound growth environment. Tamping or watering shall accompany the backfilling operation to eliminate air pockets. Within 30 days of tree planting, mulch shall be placed to a depth of 4-inches over the excavated saucer area. Each tree shall receive a single watering bag installed in accordance with the manufacturer's written instructions. Bracing for each tree shall be installed in accordance with *Article 253.13* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition.

The Rockford Park District will water and maintain the trees following installation.

28.2 Materials

1. Trees shall have a 2-inch minimum diameter and consist of an equal mixture of White Oak (*Quercus alba*), Bur Oak (*Quercus macrocarpa*), and Chinkapin (*Quercus muehlenbergii*) species.
2. Tree watering bags shall have a capacity of 15 gallons of water.

28.3 Required Submittals

The Contractor shall submit the following items for review and approval:

1. Tree profile/data sheet for each tree species to be planted.
2. Tree watering bag specifications.

28.4 Warranty

The Contractor shall warrant all planted trees for a period of one (1) year from the date of installation, provided the trees are properly maintained. Any tree requiring replacement, shall be furnished and replanted, at the Contractor's expense, in accordance with the original installation specifications. Any such replacements shall likewise be covered by the same warranty period from the date of subsequent installation.

28.5 Method of Measurement

This work shall be measured for payment following the installation of the trees.

28.6 Basis of Payment

This work shall be paid for at the Contract unit price per each (EACH) for ***Tree Planting***.

29 Tree Removal

29.1 General

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions, and *Section 201* of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition. This work shall include all equipment, materials, labor, transportation, and workmanship to remove trees as shown on the plans.

This work shall consist of cutting, grubbing, removal, and disposal of trees and stumps. The removal and disposal of trees, saplings, bushes, and other brush, roots, and debris less than 6 inches in diameter at a height of 4.5 feet above ground level will be considered incidental and will not be measured for payment, per *Articles 201.02 and 201.08 of the IDOT Standard Specifications for Road and Bridge Construction*, current edition.

Tree trimming and pruning necessary to complete the work shown on the plans shall be per *Article 201.03(b) of the IDOT Standard Specifications for Road and Bridge Construction*, current edition, and shall only be done with the approval of the Engineer. Tree trimming shall be accomplished by saw cutting limbs flush with the attached limb or trunk. Tree trimming and pruning will be considered incidental and will not be measured for payment.

Only those trees specifically marked for removal by the Engineer shall be removed. Only those trees approved to be trimmed by the Engineer shall be trimmed. All other trees shall be protected from damage during construction.

29.2 Required Submittals

None.

29.3 Method of Measurement

This work will be measured for payment per *Article 201.10 of the IDOT Standard Specifications for Road and Bridge Construction*, current edition.

29.4 Basis of Payment

This work shall be paid for at the Contract unit price per unit diameter (UNIT) for ***Tree Removal (6 to 15 Units Diameter)*** and ***Tree Removal (Over 15 Units Diameter)***.

Section II
Contract Forms

Not to be used for bidding purposes

Proposal

Project: Creek Crossing Protection – Alpine Park
Capital Project No. 2687

Location: Alpine Park
City of Rockford, Winnebago County, Illinois

Completion Date: September 30, 2026

Liquidated Damages: \$300/calendar day beyond completion date deadline

To: Board of Trustees
Four Rivers Sanitation Authority
3501 Kishwaukee Street
Rockford, IL 61109

From: _____
(Individual, Partnership or Corporation, as case may be)

(Address of Individual, Partnership or Corporation)

I (We), the undersigned, hereby propose to furnish all materials, equipment, tools, services, labor, and whatever else may be required to construct and place in service the above subject Sanitary Sewer for the Four Rivers Sanitation Authority all in accordance with the plans and specifications, provided by Four Rivers Sanitation Authority. The undersigned also affirms and declares:

1. That I (we), have, examined and am (are) familiar with all the related contract documents and found that they are accurate and complete and are approved by the undersigned.
2. That I (we), have carefully examined the site of the work, and that, from my (our) investigation, has satisfied myself (ourselves) as to the nature and location of the work, the character, quality, and quantity of materials and the kind and extent of equipment and other facilities needed for the performance of the work, the general and local conditions and all difficulties to be encountered, and all other items which may, in any way, effect the work or its performance.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.
4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of the Four Rivers Sanitation Authority,

which it is agreed, shall be retained as liquidated damages by said Four Rivers Sanitation Authority if the undersigned fails to execute the Contract in conformity with the contract documents incorporated in the contract documents and furnish bond as specified, within ten (10) days after notification of the award of the contract to the undersigned.

5. The Bidder is of lawful age and that no other person, firm or corporation has any interest in this Proposal or in the Contract proposed to be entered into.
6. The Bidder is not in arrears to the Four Rivers Sanitation Authority, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the Four Rivers Sanitation Authority.
7. No officer or employee or person whose salary is payable in whole or in part by the Four Rivers Sanitation Authority is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety or otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it is relates, or in any portion of the profits thereof.
8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify the Four Rivers Sanitation Authority and the Four Rivers Sanitation Authority's representatives.

In regard to participation in an approved Apprenticeship program, upon request, Contractor will be required to provide written proof of participation.

9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 101-0221 and will make this information available upon request.
10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including Four Rivers Sanitation Authority) to submit certified payroll reports via the State's Certified Transcript of Payroll Portal found at <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>.
11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".
13. The undersigned, as Bidder, declares he will comply with Public Act 96-929 (30 ILCS 570) regarding Illinois residents' employment.
14. The undersigned, as Bidder, declares he will comply with non-discrimination in employment in accordance with the Illinois Fair Employment Practices Commissions Rules & Regulations.
15. The undersigned, as Bidder, declares that he currently participates in an apprenticeship or training program that is registered with the United States Department of Labor's Bureau of

Apprenticeship and Training or other acceptable State of Illinois Department of Labor monitored program.

In submitting this bid, it is understood that the right is reserved by the Four Rivers Sanitation Authority to reject any and all bids. It is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.

The undersigned further declares that he (they) has (have) carefully examined the following items of work and that the cost of all the work to complete this project is given in this Proposal.

Not to be used for bidding purposes

| Item No. | Quantity | Unit | Description | Unit Price (In Writing) | Unit Price (In Figures) | Total Price (In Figures) |
|-----------------|----------|-------|---------------------------------------------------------|-------------------------|-------------------------|--------------------------|
| Base Bid | | | | | | |
| 1 | 35 | TON | Aggregate Ditch Checks | | | |
| 2 | 1 | L SUM | Bypass Pumping Sanitary Sewers | | | |
| 3 | 82 | FOOT | Concrete Encasement for Sanitary Sewers | | | |
| 4 | 1 | L SUM | Construction Layout | | | |
| 5 | 2,249 | SQ YD | Erosion Control Blanket | | | |
| 6 | 620 | SQ YD | Filter Fabric | | | |
| 7 | 1 | EACH | Manholes, Type A, 4' Diameter, Type 1 Frame, Closed Lid | | | |
| 8 | 621 | FOOT | Perimeter Erosion Barrier | | | |
| 9 | 1 | EACH | Precast Reinforced Concrete Flared End Section, 24" | | | |
| 10 | 1 | EACH | Remove Existing Flared End Section | | | |
| 11 | 1 | EACH | Removing Manholes | | | |
| 12 | 554 | SQ YD | Riprap Slurry | | | |
| 13 | 58 | FOOT | Sanitary Sewer Main Line Repair, 12" Dia. | | | |
| 14 | 2,249 | SQ YD | Seeding, Class 1 and Fertilizing | | | |

| Item No. | Quantity | Unit | Description | Unit Price (In Writing) | Unit Price (In Figures) | Total Price (In Figures) |
|------------------------|----------|-------|-----------------------------------------------------------|-------------------------|-------------------------|--------------------------|
| 15 | 141 | SQ YD | Stabilized Construction Entrance | | | |
| 16 | 595 | SQ YD | Stone Riprap for Sanitary Sewer Stream Crossing, Class A5 | | | |
| 17 | 33 | FOOT | Storm Sewer Removal, 24" | | | |
| 18 | 35 | FOOT | Storm Sewers, Class A, Type 1 24" | | | |
| BASE BID PRICE: | | | | | | |
| | | | | (In Writing) | | (In Figures) |
| Alternate Bid A | | | | | | |
| A1 | 1 | EACH | Abandon and Fill Existing Sanitary Sewer | | | |
| A2 | 1 | L SUM | Bypass Pumping Sanitary Sewers | | | |
| A3 | 1 | L SUM | Construction Layout | | | |
| A4 | 673 | SQ YD | Erosion Control Blanket | | | |
| A5 | 1 | EACH | Manholes, Type A, 4' Diameter, Type 1 Frame, Closed Lid | | | |
| A6 | 140 | FOOT | Perimeter Erosion Barrier | | | |
| A7 | 75 | CU YD | Rock Excavation for Sanitary Sewer | | | |
| A8 | 1 | EACH | Sanitary Manholes To Be Removed & Replaced, 4' Dia. | | | |
| A9 | 1 | EACH | Sanitary Manholes, 4' Dia. | | | |

| Item No. | Quantity | Unit | Description | Unit Price (In Writing) | Unit Price (In Figures) | Total Price (In Figures) |
|------------------------------------------|----------|-------|------------------------------------------|----------------------------|----------------------------|-----------------------------|
| A10 | 136 | FOOT | Sanitary Sewer, PVC SDR 26, 08" Dia. | | | |
| A11 | 673 | SQ YD | Seeding, Class 1 and Fertilizing | | | |
| A12 | 25 | FOOT | Storm Sewer Removal, 15" | | | |
| A13 | 25 | FOOT | Storm Sewers, Class A, Type 2 15" | | | |
| A14 | 74 | EACH | Tree Planting | | | |
| A15 | 50 | UNIT | Tree Removal (6 to 15 Units Diameter) | | | |
| A16 | 98 | UNIT | Tree Removal (Over 15 Units Diameter) | | | |
| ALTERNATE BID A PRICE: | | | | | | |
| | | | | (In Writing) | | (In Figures) |
| BASE BID + ALTERNATE BID A PRICE: | | | | | | |
| | | | | (In Writing) | | (In Figures) |

Please note: This Project will be awarded, if at all, to a single bidder. Bids will be compared on the total price bid for Base Bid work plus any combination of Alternate Bids (Base Bid or Base Bid + Alternate Bid A). In accordance with Section I, Article 2, Parts 3.10 and 3.11, FRSA is responsible for selecting the lowest, responsive, responsible bidders. Bids submitted that omit Alternate Bid A may be deemed unresponsive at the sole discretion of FRSA. FRSA reserves the right to reject any and all bids and to accept the bid which they deem most favorable to the interest of FRSA after all proposals have been canvassed.

The undersigned acknowledges receiving Addendum numbers _____, _____, _____, and realizes that all Addenda are considered part of the Contract.

By: _____

Name: _____ Title: _____ Date: _____

Not to be used for bidding purposes

Fair Employment Practices Affidavit of Compliance

Project: Creek Crossing Protection – Alpine Park, Capital Project No. 2687

NOTE: THE BIDDER MUST EXECUTE THIS AFFIDAVIT AND SUBMIT IT WITH ITS SIGNED BID. THE FOUR RIVERS SANITATION AUTHORITY CANNOT ACCEPT ANY BID WHICH DOES NOT CONTAIN THIS AFFIDAVIT

_____, being first duly sworn, deposes and says that:
(Name of person making affidavit)

They are: _____ of _____
(Officer's Title) (Company Name)

that said company is and "Equal Opportunity Employer" as defined by Section 2000(e) of Chapter 21, Title 42 of the United States Code annotated and Federal Executive Orders #11375 which are incorporated herein by reference;

and that said company will comply with any and all requirements of Title 44 Admin. Code 750. APPENDIX A – Equal Opportunity Clause, Rules and Regulations, Illinois Department of Human Rights, which read as follows:

"In the event of the contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance to this contract, the contractor agrees as follows:

1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizen status, age, physical or mental handicap unrelated to ability, sexual orientation, military status or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
2. That, if he or she hires additional employees in order to perform this contract or any portion of this contract, he or she will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the areas from which he or she may reasonably recruit and he or she will hire for each job classification for which employees are hired in a way that minorities and women are not underutilized.
3. That, in all solicitations or advertisements for employees placed by him or her or on his or her behalf, he or she will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, sexual orientation, military status or an unfavorable discharge from military service.
4. That he or she will send to each labor organization or representative of workers with which he or she has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the contractor in his or her efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the contract.
5. That he or she will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Departments Rules and Regulations.
6. That he or she will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
7. That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

(Source: Amended at 32 Ill. Reg. 16484, effective September 23, 2008)"

Ill. Dept of Human Rights Registration No.: _____ Expiration Date: _____

Signature

Subscribed and sworn to before me this _____ day of _____, 20_____.

Notary Public

STATE OF ILLINOIS)
) SS.
COUNTY OF _____)

AFFIDAVIT OF COMPLIANCE: RESPONSIBLE BIDDER ORDINANCE

I, _____ [Name of Affiant], being first duly sworn upon oath, state as follows:

- Position:** I am the _____ [Title] of _____ [Name of Bidding Entity] (the "**Bidder**"), and I am authorized to make this Affidavit on its behalf.
- Project:** This Affidavit is submitted in connection with the bid for Creek Crossing Protection – Alpine Park, Capital Project No. 2687 (the "**Project**") for the **Four Rivers Sanitation Authority ("FRSA")**.
- Responsible Bidder Status:** I certify that the Bidder meets the definition of a "**Responsible Bidder**" as set forth in the FRSA Responsible Bidder Ordinance for projects estimated to cost over \$40,000.
- Apprenticeship Program Participation:** The Bidder, and all subcontractors at any tier, participate in active apprenticeship and training programs approved and registered with the U.S. Department of Labor's Office of Apprenticeship and Training (or its successor) for each of the trades of work contemplated under the awarded contract.
- Evidence of Participation:** Attached to the bid (or to be provided as required) are copies of the applicable apprenticeship standards and apprenticeship agreement(s) for any contractor(s) who will perform work on the project site.
- Subcontractor Compliance:** The Bidder shall require all subcontractors for this FRSA Project to comply with the requirements of this Ordinance.
- Verification:** I understand that FRSA may request additional documentation to verify that the apprenticeship program is active and registered.
- Acknowledgment of Penalties:** I acknowledge that failure to provide this Affidavit or proof of participation shall render the bid non-responsive and subject to disqualification. Further, I understand that failure to comply with these requirements during the performance of the contract may result in being deemed in default, withholding of payments, and contract termination.
- Exemptions:** I certify that the work for which this bid is submitted is not exclusively dedicated to the transportation of materials and equipment, nor does it consist solely of the maintenance, repair, or installation of lining of sanitary sewer lines, unless a specific waiver has been granted by FRSA.

FURTHER AFFIANT SAYETH NOT.

[Signature of Affiant]

SUBSCRIBED AND SWORN to
before me this ____ day of _____, 20__.

NOTARY PUBLIC

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we:

_____ (hereinafter called the Principal) and

_____ (hereinafter called the Surety)

a Corporation chartered and existing under the laws of the State of _____ with its principal offices in the City of _____ and authorized to do business in the State of Illinois are held and firmly bound unto the Four Rivers Sanitation Authority (FRSA) of Winnebago County, Illinois, in the full and just sum of: **FIVE PERCENT (5 %) OF THE TOTAL BID PRICE** good lawful money of the United States of America, to be paid upon demand of the FRSA, to which payment will and truly to be made we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally and firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted to FRSA, a proposal for the Creek Crossing Protection – Alpine Park project consisting of the repair and reroute of encased, undermined sanitary sewer crossing Keith Creek in Alpine Park. Work includes removal and replacement of encased sanitary sewer, installation of new sanitary sewer, armoring of encased sanitary sewer with grouted riprap, removal and replacement of storm sewer and all other appurtenances indicated on the plans and in the specifications.

WHEREAS, the Principal desires to file this bond, in accordance with law, to accompany this Proposal.

NOW THEREFORE, The conditions of this obligation are such that if the Proposal be accepted, the Principal shall, within ten days after the date of receipt of a written notice of award of Contract, execute a Contract in accordance with the Proposal and upon the terms, conditions, and prices set forth therein, in the form and manner required by FRSA, and execute a sufficient and satisfactory Contract Performance Bond payable to said FRSA in an amount of one hundred percent (100%) of the Contract price (including alternates) in form and with security satisfactory to said FRSA, then this obligation to be void, otherwise to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid FRSA, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed and sealed this _____ day of _____, 20_____.

Principal

(Seal)

By _____

Name: _____

Title: _____

Date: _____

Attest:

Secretary

Surety

(Seal)

By _____

Name: _____

Title: _____

Date: _____

Not to be used for bidding purposes

Agreement

1. General

THIS AGREEMENT, made and concluded this _____ day of _____, 2026, between the Four Rivers Sanitation Authority (FRSA), Rockford, Illinois, acting by and through the Board of Trustees, and _____, his/their executors, administrators, successors or assigns:

2. Scope of Work

WITNESSETH: That for and in consideration of the payments and agreements made in the Proposal attached hereto, to be made and performed by FRSA and according to the terms expressed in the Bond referring to these presents, the Contractor agrees with FRSA at his/their own proper cost and expense to do all the work, furnish all equipment, materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of FRSA and its representative.

And it is also understood and agreed that the Bidding Requirements, Detailed Specifications, Contract Forms, General Conditions, General Requirements, Technical Specifications, Plans, Addenda, and provisions required by law are all essential documents of the contract, and are a part hereof, as if herein set out verbatim or as if attached, except for titles, subtitles, headings, table of contents and portions specifically excluded.

3. Contract Price

FRSA shall pay to the Contractor, and the Contractor shall accept, in full payment for the performance of this Contract, subject to any additions or deductions provided for hereby, in current funds, the Total Contract Price of _____ and 00/100 (\$ _____).

Payments are to be made to the Contractor in accordance with and subject to the provisions of Section 7 of this Agreement, which is a part of this Contract.

4. Bond

The Contractor has entered into and herewith tenders a bond of even date herewith, in the penal sum of _____ and 00/100 (\$ _____) to insure the faithful performance of this Contract, which said bond is hereby made a part of this Contract by reference.

5. Maintenance and Guarantee

The Contractor shall promptly repair, replace, restore or rebuild any imperfections that may arise and shall maintain satisfactory to FRSA all work for a period three years from the date of final acceptance of the Contract for trench settlement and for a period of two years all other work, except where periods of maintenance and guarantee are provided for. The Contractor shall, for this period, indemnify and save harmless the FRSA, its officers and agents from any injury done to property or persons as a direct or alleged result of imperfections in the Contractors' work, and shall immediately assume and take charge of the defense of such action or suits in like manner and to all intents and purposes as if said actions and suits had been brought directly against the Contractor.

If the Contractor shall fail to repair, replace, rebuild or restore such defective or damaged work promptly after receiving notice given by FRSA, the FRSA shall have the right to have the work done by others and to call on the Contractor and his bondsman to pay the costs thereof.

6. Contract Execution

IT IS EXPRESSLY UNDERSTOOD AND AGREED that the entire improvement shall be done in a thorough and workmanlike manner, under the direction and to the satisfaction of FRSA and in full compliance with all the requirements of its representative under them. All loss or damage arising out of the nature of the work to be done, or from any detention of unforeseen obstruction or difficulty which may be encountered in the prosecution of the work, or from the action of the elements, shall be sustained by the Contractor.

The Contractor will be held responsible for all accidents, and hereby agrees to indemnify and protect FRSA from all suits, claims, and actions brought against it, and all cost, and damages which FRSA may be put to by reason of an injury or alleged injury, to the person or property of another in the execution of this contract, or the performance of the work, or in guarding the same, or for any material used in its prosecution or in its construction.

Any person employed on the work who shall refuse or neglect to obey the directions of FRSA or its representative, or who shall be deemed by FRSA to be incompetent, or who shall be guilty of any disorderly conduct, or who shall commit any trespass on any public or private property in the vicinity of the work, shall at once be removed from the work by the Contractor when so requested by FRSA.

Any request to extend the contract completion date must be considered by the Board at the Board meeting prior to the then-existing contract termination date. Any deviation from this action will result in the liquidated damage clause in the contract to be exercised.

7. Payments to Contractor

FRSA hereby covenants and agrees, in consideration of the covenants and agreements in this Contract, specified to be kept and performed by the Contractor and subject to the conditions herein contained, and if FRSA receives an acceptable invoice prior to the tenth day of the month and receives approval of the work by the FRSA's Director of Engineering, FRSA shall issue payment before the fifth day of the succeeding month. If FRSA receives an acceptable invoice on or after the tenth day of the month, FRSA shall issue payment before the fifth day of the second succeeding month.

FRSA reserves the right at all times to refuse to issue payment in case the Contractor has neglected or failed to pay any subcontractors, workmen or employee on the work.

8. Subcontracts

No part of the work herein provided for shall be sublet or subcontracted without the express consent of FRSA, to be entered in the records, and in no case shall consent relieve the Contractor from the obligation herein entered into, or change the terms of this Agreement.

9. Contractor's Responsibility

This Contract shall extend to and be binding upon the successors and assigns, and upon the heirs, administrators, executors, and legal representatives of the Contractor.

In consideration of and to induce the award of this Contract to him, the Contractor represents and warrants: that he is not in arrears to FRSA upon debt of the Contract and that he is not a defaulter, as surety, contractor or otherwise; that he is financially solvent and sufficiently experienced and competent to perform the work; that the work can be performed as called for by the Contract; that the facts stated in his proposal and the information given by him is true and correct in all respects, and that he is fully informed regarding all the conditions affecting the work to be done and labor and materials to be furnished for the completion of this Contract and that his information was secured by personal investigation and research.

The Contractor shall pay not less than the prevailing wage rate as determined by the Department of Labor, to all laborers, workmen and mechanics performing work under this Contract. Contractor shall comply with current revisions of the wage standards; as required by law. The Contractor shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. The State of Illinois requires contractors and subcontractors on FRSA projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>. The Contractor is responsible for verifying current website.

In regard to nondiscrimination in employment, Contractor will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations as provided herein.

The Contractor shall comply with the American Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify FRSA and their representatives from all:

- (a) suits, claims, or actions;
- (b) costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement, and;
- (c) damages of any kind (including but not limited to actual, punitive, and compensatory damages)

relating in any way to or arising out of the ADA, to which said firm is exposed or which it incurs in the execution of the contract.

Contractor shall also comply with Public Act 101-0221, which requires any party to a contract to adopt and enforce a written policy regarding sexual harassment that includes, as a minimum, the following information:

- (a) the illegality of sexual harassment
- (b) the definition of sexual harassment under Illinois State law;
- (c) a description of sexual harassment, utilizing examples;
- (d) my (our) organization's internal complaint process including penalties;
- (e) through the Illinois Department of Human Rights and the Illinois Human Rights Commission;
- (f) directions on how to contact the Department and the Commission; and
- (g) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act.

Upon request this information will be provided to the Illinois Department of Human Rights. Upon FRSA award of a contract, FRSA will be provided this information described no more than ten working days after FRSA issues its award notification.

The Contractor shall comply with Public Act 96-929 (30 ILCS 570) which provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and further, that Illinois workers are available and capable of performing the particular type work involved.

The Contractor shall comply with all rules and regulations of OSHA during the execution of this Contract.

The Contractor shall comply with the Federal Drug Free Workplace Act.

The Steel Products Procurement Act, Illinois Public Act 83-1030, requires that steel products used or supplied in performance of this Contract or subcontract shall be manufactured or produced in the United States with three exceptions, as explained in the Instructions to Bidders.

The Contractor shall comply with Public Act 96-1416 regarding the disposal of CCDD and uncontaminated soil at CCDD fill sites as explained in the Instructions to Bidders.

10. Time

Work under this Agreement shall be commenced upon written Notice to Proceed. The completion date for this project shall be September 30, 2026.

11. Liquidated Damages

The amount of liquidated damages shall be \$300.00 per calendar day.

12. Counterparts

This Agreement may be executed and recorded in counterparts, each of which shall be deemed an original and all of which, when taken together, shall constitute one and the same instrument. The Parties hereby acknowledge and agree that facsimile signatures or signatures transmitted by electronic mail in so-called "pdf" format shall be legal and binding and shall have the same full force and effect as if an original of this Agreement had been delivered. Each of the parties (a) intend to be bound by the signatures on any document sent by facsimile or electronic mail, (b) are aware that the other party will rely on such signatures, and (c) hereby waive any defenses to the enforcement of the terms of this Agreement based on the foregoing forms of signature.

13. Seals

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals, and such of them as are corporations have caused these presents to be signed by their duly authorized officers.

(Seal)

Four Rivers Sanitation Authority
Winnebago County, Illinois

By _____
President, Board of Trustees

ATTEST: _____
Clerk of the Board

Contractor

(Corporate Seal)

By _____
Contractor's Officer

Name: _____

Title: _____

Date: _____

ATTEST: _____

Not to be used for bidding purposes

Labor & Material Payment Bond

TO: _____ Contractor Name
_____ Contractor City, State

KNOW ALL MEN BY THESE PRESENTS

That _____ (Contractor)

as Principal, and _____

a corporation of the State of _____ as Surety, are held and firmly bound unto the Four Rivers Sanitation Authority, as Obligee, for the use and benefit of claimants as hereinafter defined in the amount of

_____ Dollars (\$ _____), for the payment where of Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated _____ 20__ Entered into a Contract with Obligee for _____ in accordance with contract documents prepared by the Four Rivers Sanitation Authority which Contract is by reference made a part hereof, and is hereinafter referred to as "the Contract".

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 280 ILCS 130 / 1-12 et.seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. A claimant is deemed as any person, firm, or corporation having contracts with the Principal or with any of Principal's subcontractors for labor or materials furnished in the performance of the Contract on account of which this Bond is given.
2. Nothing in this Bond contained shall be taken to make the Obligee liable to any subcontractor, material man or laborer, or to any other person to any greater extent than it would have been liable prior to the enactment of The Public Construction Bond Act, approved June 20, 1931, as amended; provided further, that any person having a claim for labor and materials furnished in the performance of the Contract shall have no right of action unless he shall have filed a verified notice of such claim with the Obligee within 180 days after the date of the last item of work or the furnishing of the last item of materials, which claim shall have been verified and shall contain the name and address of the claimant, the business address of the claimant within the State of Illinois, if any, or if the claimant be a foreign corporation having no place of business within the State the principal place of business of the corporation, and in all cases of partnership the names and residences of each of the partners, the name of the Contractor

for the Obligee, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.

3. No action shall be brought on this Bond until the expiration of 120 days after the date of the last item of work or of the furnishing of the last item of material except in cases where the final settlement between Obligee and the Contractor shall have been made prior to the expiration of the 120 day period, in which case action may be taken immediately following such final settlement; nor shall any action of any kind be brought later than 6 months after the acceptance by the Obligee of the work. Such suit shall be brought only in the circuit court of this State in the judicial district in which the Contract is to be performed.
4. Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof.
5. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder.
6. The Principal and Surety shall be liable for any attorneys' fees, engineering costs, or court costs incurred by the Obligee relative to claims made against this Bond.

Signed and Sealed this _____ day of _____, 20__.

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Performance Bond

KNOW ALL MEN BY THESE PRESENTS, that WHEREAS, the Four Rivers Sanitation Authority has awarded to: _____ hereinafter designated as the “Principal”, a contract, dated, _____, for the Four Rivers Sanitation Authority.

WHEREAS, said Principal is required under the terms of said Contract to furnish a bond for the faithful performance of said Contract (the “Bond”);

NOW, THEREFORE, we the Principal and _____, as Surety, are firmly bound unto the Four Rivers Sanitation Authority in the penal sum of _____

Dollars (\$ _____) lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents for a performance bond. The conditions of this obligation is such that if the said Principal does well and faithfully performs all the conditions and covenants of said Contract, according to the true intent and meaning thereof, upon its part to be kept and performed, then the above obligation is to be null and void, otherwise to remain in full force and effect.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bounden Principal, its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said Contract, including the provisions for liquidated damages in the said Contract, any changes, additions or alterations thereof made as therein provided, on its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Four Rivers Sanitation Authority, its officers and agents, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect. And the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same and no inadvertent overpayment of progress payments shall in any way affect its obligations on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications or of any inadvertent overpayment of progress payments. The Four Rivers Sanitation Authority shall be named as beneficiary on this Performance Bond.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their seal this _____ day of _____, 20_____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Not to be used for bidding purposes

Section III

**General Provisions & Technical
Specifications for Sanitary Sewer
Construction**

(Separate document incorporated by reference)